

SEQUENCE LISTING

<110> SYKES, KATHRYN F.
HALE, KATHERINE S.
JOHNSTON, STEPHEN A.

<120> METHODS FOR VACCINE IDENTIFICATION AND COMPOSITIONS FOR
VACCINATION COMPRISING NUCLEIC ACID AND/OR POLYPEPTIDE
SEQUENCES OF THE HERPESVIRUS FAMILY

<130> MCRO:002US

<140> UNKNOWN

<141> 2003-09-23

<150> 60/412,956

<151> 2002-09-23

<160> 116

<170> PatentIn Ver. 2.1

<210> 1

<211> 342

<212> DNA

<213> Herpes Virus

<400> 1

```
gccgtcccaa ccgcacagtc ccaggttaacc tccacgcccc actcggaacc cgcgggtcagg 60
agcgcgcccc cggccgcccc gccgccgccc cccgccggtg ggcccccgcc ttcttggttcg 120
ctgctgctgc gccagtggct ccacgttccc gaggccgctg cgcacgacga cgatgacgac 180
gactggccgg acagcccccc gcccgagccg gcgccagagg cccggccac cgcgcgcgcc 240
ccccggcccc ggccccacc gcccgcgctg ggccccgggg gcggggctga cccctccac 300
ccccctcgc gcccttccg ccttcgcgcg cgctcgccc tc 342
```

<210> 2

<211> 114

<212> PRT

<213> Herpes Virus

<400> 2

```
Ala Val Pro Thr Ala Gln Ser Gln Val Thr Ser Thr Pro Asn Ser Glu
 1             5             10             15

Pro Ala Val Arg Ser Ala Pro Ala Ala Pro Pro Pro Pro Pro Ala
      20             25             30

Gly Gly Pro Pro Pro Ser Cys Ser Leu Leu Leu Arg Gln Trp Leu His
      35             40             45

Val Pro Glu Ser Ala Ser Asp Asp Asp Asp Asp Asp Trp Pro Asp
      50             55             60

Ser Pro Pro Pro Glu Pro Ala Pro Glu Ala Arg Pro Thr Ala Ala Ala
      65             70             75             80

Pro Arg Pro Arg Pro Pro Pro Pro Gly Val Gly Pro Gly Gly Gly Ala
      85             90             95

Asp Pro Ser His Pro Pro Ser Arg Pro Phe Arg Leu Pro Pro Arg Leu
```

100

105

110

Ala Leu

<210> 3

<211> 747

<212> DNA

<213> Herpes Virus

<400> 3

```

atggcccgcc gccgcccga tcgcccgcgc cgccgcccgc ggccgcccgc gccacgggc 60
gccgtcccaa ccgcacagtc ccaggtaacc tccacgcccga actcggaacc cgcggtcagg 120
agcgcgcccgc cgccgcccgc gccgcccgc cccgcccgtg ggcccccgcc ttcttggtcg 180
ctgctgctgc gccagtggct ccacgttccc gagtcgcgt cgcacgacga cgatgacgac 240
gactggccgcg acagcccccc gcccgagccg gcgcccagagg cccggcccac cgcgcccgc 300
ccccggcccc ggccccacc gcccggcgtg ggccccgggg gcggggctga cccctcccac 360
ccccctcgc gcccttccg ccttcgcgc cgccctgcgc tccgcctgcg cgtcaccgcg 420
gagcacctgg cgcgcctgcg cctgcgacgc gcgggcccgg agggggcgcc ggagcccccc 480
gcgacccccg cgacccccgc gacccccgcg acccccgcga cccccgcgcg ggtgcgcttc 540
tcgccccacg tccgggtgcg ccacctggtg gtctgggcct cggccgcccg cctggcgcg 600
cgcggctcgt gggcccgcga gcgggcccgc cgggctcggt tccggcgccg ggtggcggag 660
gccgagggcg tcatcgggcc gtgcctgggg cccgagggcc gtgcccgggc cctggcccgc 720
ggagccggcc cggcgaactc ggtctaa 747

```

<210> 4

<211> 248

<212> PRT

<213> Herpes Virus

<400> 4

```

Met Ala Arg Arg Arg Arg His Arg Gly Pro Arg Arg Pro Arg Pro Pro
 1           5           10           15

Gly Pro Thr Gly Ala Val Pro Thr Ala Gln Ser Gln Val Thr Ser Thr
          20           25           30

Pro Asn Ser Glu Pro Ala Val Arg Ser Ala Pro Ala Ala Ala Pro Pro
          35           40           45

Pro Pro Pro Ala Gly Gly Pro Pro Pro Ser Cys Ser Leu Leu Leu Arg
          50           55           60

Gln Trp Leu His Val Pro Glu Ser Ala Ser Asp Asp Asp Asp Asp
          65           70           75           80

Asp Trp Pro Asp Ser Pro Pro Pro Glu Pro Ala Pro Glu Ala Arg Pro
          85           90           95

Thr Ala Ala Ala Pro Arg Pro Arg Pro Pro Pro Pro Gly Val Gly Pro
          100           105           110

Gly Gly Gly Ala Asp Pro Ser His Pro Pro Ser Arg Pro Phe Arg Leu
          115           120           125

Pro Pro Arg Leu Ala Leu Arg Leu Arg Val Thr Ala Glu His Leu Ala
          130           135           140

Arg Leu Arg Leu Arg Arg Ala Gly Gly Glu Gly Ala Pro Glu Pro Pro

```


	85		90		95
Glu Thr Glu Thr Arg Leu Ala Leu Tyr Lys Glu Ile Arg Gln Ala Leu	100		105		110
Asp Ser Arg Lys Gln Ala Ala Ser His Thr Pro Val Lys Ala Gly Cys	115		120		125
Val Asn Phe Asp Tyr Ser Arg Thr Arg Arg Cys Val Gly Arg Gln Asp	130		135		140
Leu Gly Pro Thr Asn Gly Thr Ser Gly Arg Thr Pro Val Leu Pro Pro	145		150		155
Asp Asp Glu Ala Gly Leu Gln Pro Lys Pro Leu Thr Thr Pro Pro Pro	165		170		175
Ile Ile Ala Thr Ser Asp Pro Thr Pro Arg Arg Asp Ala Ala Thr Lys	180		185		190
Ser Arg Arg Arg Arg	195				

<210> 7
 <211> 675
 <212> DNA
 <213> Herpes Virus

<400> 7
 atggggattt tgggttgggt cgggcttatt gccgttgggg ttttgtgtgt gcgggggggc 60
 ttgccttcaa ccgaatatgt tattcggagt cgggtggctc gagaggtggg ggatatatta 120
 aaggtgcctt gtgtgccgct cccgtctgac gatcttgatt ggcgttacga gacccctcg 180
 gctataaaact atgctttgat agacggtata tttttgcgtt atcactgtcc cggattggac 240
 acggtcttgt gggataggca tgcccagaag gcatattggg ttaaccctt tttatttgtg 300
 gcgggttttt tggaggactt gagttacccc gcgtttcctg ccaacaccca ggaaacagaa 360
 acgcgcttgg ccctttataa agagatacgc caggcgctgg acagtgcgaa gcaggccgcc 420
 agccacacac ctgtgaaggc tgggtgtgtg aactttgact attcgcgcac ccgccgctgt 480
 gtagggcgac aggatttggg acctaccaac ggaacgtctg gacggacccc ggttctgccg 540
 ccggacgatg aagcgggcct gcagccgaag cccctcacca cgccgccgcc catcatcgcc 600
 acgtcggacc ccaccccgcg acgggacgcc gccacaaaaa gcagacgccg acgacccac 660
 tcccggcgcc tctaa 675

<210> 8
 <211> 224
 <212> PRT
 <213> Herpes Virus

<400> 8
 Met Gly Ile Leu Gly Trp Val Gly Leu Ile Ala Val Gly Val Leu Cys
 1 5 10 15
 Val Arg Gly Gly Leu Pro Ser Thr Glu Tyr Val Ile Arg Ser Arg Val
 20 25 30
 Ala Arg Glu Val Gly Asp Ile Leu Lys Val Pro Cys Val Pro Leu Pro
 35 40 45
 Ser Asp Asp Leu Asp Trp Arg Tyr Glu Thr Pro Ser Ala Ile Asn Tyr
 50 55 60

Ala Leu Ile Asp Gly Ile Phe Leu Arg Tyr His Cys Pro Gly Leu Asp
65 70 75 80

Thr Val Leu Trp Asp Arg His Ala Gln Lys Ala Tyr Trp Val Asn Pro
85 90 95

Phe Leu Phe Val Ala Gly Phe Leu Glu Asp Leu Ser Tyr Pro Ala Phe
100 105 110

Pro Ala Asn Thr Gln Glu Thr Glu Thr Arg Leu Ala Leu Tyr Lys Glu
115 120 125

Ile Arg Gln Ala Leu Asp Ser Arg Lys Gln Ala Ala Ser His Thr Pro
130 135 140

Val Lys Ala Gly Cys Val Asn Phe Asp Tyr Ser Arg Thr Arg Arg Cys
145 150 155 160

Val Gly Arg Gln Asp Leu Gly Pro Thr Asn Gly Thr Ser Gly Arg Thr
165 170 175

Pro Val Leu Pro Pro Asp Asp Glu Ala Gly Leu Gln Pro Lys Pro Leu
180 185 190

Thr Thr Pro Pro Ile Ile Ala Thr Ser Asp Pro Thr Pro Arg Arg
195 200 205

Asp Ala Ala Thr Lys Ser Arg Arg Arg Arg Pro His Ser Arg Arg Leu
210 215 220

<210> 9
<211> 1292
<212> DNA
<213> Herpes Virus

<400> 9
cagctagacg gacagaaacc cggcccgccg caccttcagc aaccggggga cgcaccagcc 60
gttccaggga gggccgaggc ctttttaaat tttacgtcta tgcacggggt gcagccaatc 120
cttaagcgca tccgagagct ctcgcaacaa cagctcgacg gagcgcaagt gccccatctg 180
cagtggttcc gggacgtggc ggccttagag tcccccgag gcctgcccct caggagagttt 240
ccgttcgcgg tgtatcttat caccggcaac gctgggtccg gaaagagcac gtgcgtgcag 300
acaatcaacg aggtcttgga ctgtgtggtg acgggcgcca cgcgcattgc ggcccaaaac 360
atgtacgcca aactctcggg cgcttttctc agccgaccca tcaacaccat ctttcatgaa 420
tttgggtttc gcgggaatca cgtccaggcc caactgggac agtaccgta caccctgacc 480
agcaaccccc cctcgctgga ggacctgcag cgacgagatc tgacgtacta ctgggaggtg 540
atcttggaac tcacgaagcg cgccctggcc gcctccgggg gcgaggagtt gcggaacgag 600
tttcgcgccc tggccgccct ggaacggacc ctgggggttg ccgagggcgc cctgacgcgg 660
ttggccccgg ccaccacg ggcgctgccc gcctttaccc gcagcaacgt gatcgctc 720
gacgaggccg ggctccttgg gcgtcacctc ctacagggcg tgggtgtatt ctggtggatg 780
attaacgccc tgtaccacac cccccagtac gcggccccgc tgccggccgt gttggtgtgt 840
gtgggctcgc cgacgcagac ggcgtccctg gagtgcacct tcgagcacca gaaactgcgg 900
tgttccgtcc gccagagcga gaacgtgctc agctacctca tctgcaaccg cacgctgcgc 960
gagtagcggc ggcctctcgt tagctggggc atttttatta acaacaaacg gtgcgtcgag 1020
cacgagttcg gtaacctcat gaaggtgctg gagtacggcc tgcccatcac cgaggagcac 1080
atgcagttcg tggatcgctt cgtcgtcccg gaaaactaca tcaccaaccc cgccaacctc 1140
cccggctgga cgcggctggt ctctccccc aaagaggtga gcgcgtacat ggccaagctc 1200

cacgcctacc tgaaggtgac ccgtgagggg gagttcgtcg tgttcacct ccccgctt 1260
acgttcgtgt cggtaagga gtttgacgaa ta 1292

<210> 10
<211> 430
<212> PRT
<213> Herpes Virus

<400> 10
Gln Leu Asp Gly Gln Lys Pro Gly Pro Pro His Leu Gln Gln Pro Gly
1 5 10 15
Asp Arg Pro Ala Val Pro Gly Arg Ala Glu Ala Phe Leu Asn Phe Thr
20 25 30
Ser Met His Gly Val Gln Pro Ile Leu Lys Arg Ile Arg Glu Leu Ser
35 40 45
Gln Gln Gln Leu Asp Gly Ala Gln Val Pro His Leu Gln Trp Phe Arg
50 55 60
Asp Val Ala Ala Leu Glu Ser Pro Ala Gly Leu Pro Leu Arg Glu Phe
65 70 75 80
Pro Phe Ala Val Tyr Leu Ile Thr Gly Asn Ala Gly Ser Gly Lys Ser
85 90 95
Thr Cys Val Gln Thr Ile Asn Glu Val Leu Asp Cys Val Val Thr Gly
100 105 110
Ala Thr Arg Ile Ala Ala Gln Asn Met Tyr Ala Lys Leu Ser Gly Ala
115 120 125
Phe Leu Ser Arg Pro Ile Asn Thr Ile Phe His Glu Phe Gly Phe Arg
130 135 140
Gly Asn His Val Gln Ala Gln Leu Gly Gln Tyr Pro Tyr Thr Leu Thr
145 150 155 160
Ser Asn Pro Ala Ser Leu Glu Asp Leu Gln Arg Arg Asp Leu Thr Tyr
165 170 175
Tyr Trp Glu Val Ile Leu Asp Leu Thr Lys Arg Ala Leu Ala Ala Ser
180 185 190
Gly Gly Glu Glu Leu Arg Asn Glu Phe Arg Ala Leu Ala Ala Leu Glu
195 200 205
Arg Thr Leu Gly Leu Ala Glu Gly Ala Leu Thr Arg Leu Ala Pro Ala
210 215 220
Thr His Gly Ala Leu Pro Ala Phe Thr Arg Ser Asn Val Ile Val Ile
225 230 235 240
Asp Glu Ala Gly Leu Leu Gly Arg His Leu Leu Thr Ala Val Val Tyr
245 250 255
Cys Trp Trp Met Ile Asn Ala Leu Tyr His Thr Pro Gln Tyr Ala Ala
260 265 270

Arg Leu Arg Pro Val Leu Val Cys Val Gly Ser Pro Thr Gln Thr Ala
 275 280 285
 Ser Leu Glu Ser Thr Phe Glu His Gln Lys Leu Arg Cys Ser Val Arg
 290 295 300
 Gln Ser Glu Asn Val Leu Thr Tyr Leu Ile Cys Asn Arg Thr Leu Arg
 305 310 315 320
 Glu Tyr Ala Arg Leu Ser Tyr Ser Trp Ala Ile Phe Ile Asn Asn Lys
 325 330 335
 Arg Cys Val Glu His Glu Phe Gly Asn Leu Met Lys Val Leu Glu Tyr
 340 345 350
 Gly Leu Pro Ile Thr Glu Glu His Met Gln Phe Val Asp Arg Phe Val
 355 360 365
 Val Pro Glu Asn Tyr Ile Thr Asn Pro Ala Asn Leu Pro Gly Trp Thr
 370 375 380
 Arg Leu Phe Ser Ser His Lys Glu Val Ser Ala Tyr Met Ala Lys Leu
 385 390 395 400
 His Ala Tyr Leu Lys Val Thr Arg Glu Gly Glu Phe Val Val Phe Thr
 405 410 415
 Leu Pro Val Leu Thr Phe Val Ser Val Lys Glu Phe Asp Glu
 420 425 430

<210> 11
 <211> 2649
 <212> DNA
 <213> Herpes Virus

<400> 11
 atggcggcgg cggcggggga ggcgagccta gacggacaga aaccgagccc gccgcacctt 60
 cagcaacccg gggaccgacc agccgttcca gggaggggccc aggccttttt aaatttttacg 120
 tctatgcacg ggggtgcagcc aatccttaag cgcacccagag agctctcgca acaacagctc 180
 gacggagcgc aagtgcacca tctgcagtgg ttccgggacg tggcgccctt agagtccccc 240
 gcaggcctgc ccctcaggga gtttccgttc gcggtgtatc ttatcaccgg caacgctggc 300
 tccggaaga gcacgtgcgt gcagacaatc aacgaggtct tggactgtgt ggtgacgggc 360
 gccacgcgca ttgcggccca aaacatgtac gccaaactct cgggcgcctt tctcagccga 420
 cccatcaaca ccatctttca tgaatttggg ttctcgggga atcacgtcca ggcccaactg 480
 ggacagtacc cgtacaccct gaccagcaac cccgcctcgc tggaggacct gcagcgacga 540
 gatctgacgt actactggga ggtgattttg gacctcacga agcgcgccct gccgcctcc 600
 gggggcgagg agttgcgga cgagtttcgc gccctggcgc ccctggaacg gaccctgggg 660
 ttggccgagg gcgcccctgac gcggttgccc ccggccaccc acggggcgct gccggccttt 720
 acccgagca acgtgatcgt catcgacgag gccgggctcc ttgggcgtca cctcctcacg 780
 gccgtggtgt attgctgggt gatgattaac gccctgtacc acacccccca gtacgcggcc 840
 cgctgcggc ccgtgttggt gtgtgtgggc tcgccgacgc agacggcgct cctggagtcg 900
 accttcgagc accagaaact gcggtgttcc gtccgcccaga gcgagaacgt gctcacgtac 960
 ctcatctgca accgcacgct gcgcgagtag gccgcctct cgtatagctg ggccattttt 1020
 attaacaaca aacggtgcgt cgagcacgag ttccggaacc tcatgaaggt gctggagtag 1080
 ggccctgccc tcaccgagga gcacatgcag ttctgtgata gcttcgtcgt cccggaaaaac 1140
 tacatcacca accccgcca cctcccggc tggacgcggc tgttctcctc ccacaaagag 1200
 gtgagcgcgt acatggccaa gctccacgac tacctgaagg tgaccgctga gggggagttc 1260
 gtcgtgttca ccctccccgt gcttacgttc gtgtcggtca aggagtttga cgaataccga 1320
 cggctgacac accagcccgg cctgacgatt gaaaagtggc tcacggccaa cgccagccgc 1380
 atcaccaact actcgagag ccaggaccag gacgcggggc acatgcgctg cgaggtgcac 1440

```

agcaaacagc agctggtcgt ggcccgaac gacgtcactt acgtcctcaa cagccagatc 1500
gcgggtgaccg cgcgcctgcg aaaactgggtt tttgggttta gtgggacgtt cggggccttc 1560
gaggcagtgt tgcgtgacga cagctttgta aagactcagg gggagacttc ggtggagttt 1620
gcctacaggt tcctgtcgcg gctcatattt agcgggctta tctcctttta caactttctg 1680
cagcgcccg gcttgatgc gacccagagg accctcgcct acgcccgcct gggagaacta 1740
acggcggaga ttctgtctct gcgccccaaa tcttcggggg tgccgacgca ggcgtcggta 1800
atggccgacg caggcgcccc cggcgagcgt gcgtttgatt ttaagcaact ggggcccgcg 1860
gacgggggccc cggacgattt tcccgaacgac gacctcgacg ttattttcgc ggggctggac 1920
gaacaacagc tcgacgtgtt ttactgccac tacacccccg gggaaccgga gaccaccgcc 1980
gccgttcaca cccagtttgc gctgctgaag cgggccttcc tcgggagatt ccgaatcctc 2040
caagagctct tcggggagggc atttgaagtc gcccccttta gcacgtacgt ggacaacgtt 2100
atcttcgggg gctgcgagat gctgaccggc tcgcgcgcgc gggggctgat gtccgtcgcc 2160
ctgcagacgg acaattatac gctcatggga tacacgtacg cacgggtgtt tgcctttgcg 2220
gacgagctgc ggaggcggca cgcgacggcc aacgtggccg agttactgga agaggcccc 2280
ctgccttacg tggctctgcg ggaccaacac ggcttcatgt ccgtcgtcaa caccaacatc 2340
agcgagtttg tcgagtcctat tgactctacg gagctggcca tggccataaa cgccgactac 2400
ggcatcagct ccaagcttgc catgaccatc acgcgctccc agggccttag cctggacaag 2460
gtcgccatct gctttacgcc cggcaacctg cgctcaaca gcgcgtacgt ggccatgtcc 2520
cgcaccacct cctccgaatt ccttcgcgtg aacttaaact cgctccggga gcgccacgag 2580
cgcgatgacg tcattagtga gcacatacta tcggctctgc gcgatccgaa cgtggtcatt 2640
gtctattaa

```

<210> 12

<211> 882

<212> PRT

<213> Herpes Virus

<400> 12

```

Met Ala Ala Ala Gly Gly Glu Arg Gln Leu Asp Gly Gln Lys Pro Gly
  1              5              10              15

Pro Pro His Leu Gln Gln Pro Gly Asp Arg Pro Ala Val Pro Gly Arg
      20              25              30

Ala Glu Ala Phe Leu Asn Phe Thr Ser Met His Gly Val Gln Pro Ile
      35              40              45

Leu Lys Arg Ile Arg Glu Leu Ser Gln Gln Gln Leu Asp Gly Ala Gln
      50              55              60

Val Pro His Leu Gln Trp Phe Arg Asp Val Ala Ala Leu Glu Ser Pro
      65              70              75              80

Ala Gly Leu Pro Leu Arg Glu Phe Pro Phe Ala Val Tyr Leu Ile Thr
      85              90              95

Gly Asn Ala Gly Ser Gly Lys Ser Thr Cys Val Gln Thr Ile Asn Glu
      100              105              110

Val Leu Asp Cys Val Val Thr Gly Ala Thr Arg Ile Ala Ala Gln Asn
      115              120              125

Met Tyr Ala Lys Leu Ser Gly Ala Phe Leu Ser Arg Pro Ile Asn Thr
      130              135              140

Ile Phe His Glu Phe Gly Phe Arg Gly Asn His Val Gln Ala Gln Leu
      145              150              155              160

Gly Gln Tyr Pro Tyr Thr Leu Thr Ser Asn Pro Ala Ser Leu Glu Asp
      165              170              175

```


Leu Gln Arg Arg Asp Leu Thr Tyr Tyr Trp Glu Val Ile Leu Asp Leu
 180 185 190
 Thr Lys Arg Ala Leu Ala Ala Ser Gly Gly Glu Glu Leu Arg Asn Glu
 195 200 205
 Phe Arg Ala Leu Ala Ala Leu Glu Arg Thr Leu Gly Leu Ala Glu Gly
 210 215 220
 Ala Leu Thr Arg Leu Ala Pro Ala Thr His Gly Ala Leu Pro Ala Phe
 225 230 235 240
 Thr Arg Ser Asn Val Ile Val Ile Asp Glu Ala Gly Leu Leu Gly Arg
 245 250 255
 His Leu Leu Thr Ala Val Val Tyr Cys Trp Trp Met Ile Asn Ala Leu
 260 265 270
 Tyr His Thr Pro Gln Tyr Ala Ala Arg Leu Arg Pro Val Leu Val Cys
 275 280 285
 Val Gly Ser Pro Thr Gln Thr Ala Ser Leu Glu Ser Thr Phe Glu His
 290 295 300
 Gln Lys Leu Arg Cys Ser Val Arg Gln Ser Glu Asn Val Leu Thr Tyr
 305 310 315 320
 Leu Ile Cys Asn Arg Thr Leu Arg Glu Tyr Ala Arg Leu Ser Tyr Ser
 325 330 335
 Trp Ala Ile Phe Ile Asn Asn Lys Arg Cys Val Glu His Glu Phe Gly
 340 345 350
 Asn Leu Met Lys Val Leu Glu Tyr Gly Leu Pro Ile Thr Glu Glu His
 355 360 365
 Met Gln Phe Val Asp Arg Phe Val Val Pro Glu Asn Tyr Ile Thr Asn
 370 375 380
 Pro Ala Asn Leu Pro Gly Trp Thr Arg Leu Phe Ser Ser His Lys Glu
 385 390 395 400
 Val Ser Ala Tyr Met Ala Lys Leu His Ala Tyr Leu Lys Val Thr Arg
 405 410 415
 Glu Gly Glu Phe Val Val Phe Thr Leu Pro Val Leu Thr Phe Val Ser
 420 425 430
 Val Lys Glu Phe Asp Glu Tyr Arg Arg Leu Thr His Gln Pro Gly Leu
 435 440 445
 Thr Ile Glu Lys Trp Leu Thr Ala Asn Ala Ser Arg Ile Thr Asn Tyr
 450 455 460
 Ser Gln Ser Gln Asp Gln Asp Ala Gly His Met Arg Cys Glu Val His
 465 470 475 480
 Ser Lys Gln Gln Leu Val Val Ala Arg Asn Asp Val Thr Tyr Val Leu
 485 490 495

Asn Ser Gln Ile Ala Val Thr Ala Arg Leu Arg Lys Leu Val Phe Gly
 500 505 510
 Phe Ser Gly Thr Phe Arg Ala Phe Glu Ala Val Leu Arg Asp Asp Ser
 515 520 525
 Phe Val Lys Thr Gln Gly Glu Thr Ser Val Glu Phe Ala Tyr Arg Phe
 530 535 540
 Leu Ser Arg Leu Ile Phe Ser Gly Leu Ile Ser Phe Tyr Asn Phe Leu
 545 550 555 560
 Gln Arg Pro Gly Leu Asp Ala Thr Gln Arg Thr Leu Ala Tyr Ala Arg
 565 570 575
 Met Gly Glu Leu Thr Ala Glu Ile Leu Ser Leu Arg Pro Lys Ser Ser
 580 585 590
 Gly Val Pro Thr Gln Ala Ser Val Met Ala Asp Ala Gly Ala Pro Gly
 595 600 605
 Glu Arg Ala Phe Asp Phe Lys Gln Leu Gly Pro Arg Asp Gly Gly Pro
 610 615 620
 Asp Asp Phe Pro Asp Asp Asp Leu Asp Val Ile Phe Ala Gly Leu Asp
 625 630 635 640
 Glu Gln Gln Leu Asp Val Phe Tyr Cys His Tyr Thr Pro Gly Glu Pro
 645 650 655
 Glu Thr Thr Ala Ala Val His Thr Gln Phe Ala Leu Leu Lys Arg Ala
 660 665 670
 Phe Leu Gly Arg Phe Arg Ile Leu Gln Glu Leu Phe Gly Glu Ala Phe
 675 680 685
 Glu Val Ala Pro Phe Ser Thr Tyr Val Asp Asn Val Ile Phe Arg Gly
 690 695 700
 Cys Glu Met Leu Thr Gly Ser Pro Arg Gly Gly Leu Met Ser Val Ala
 705 710 715 720
 Leu Gln Thr Asp Asn Tyr Thr Leu Met Gly Tyr Thr Tyr Ala Arg Val
 725 730 735
 Phe Ala Phe Ala Asp Glu Leu Arg Arg Arg His Ala Thr Ala Asn Val
 740 745 750
 Ala Glu Leu Leu Glu Glu Ala Pro Leu Pro Tyr Val Val Leu Arg Asp
 755 760 765
 Gln His Gly Phe Met Ser Val Val Asn Thr Asn Ile Ser Glu Phe Val
 770 775 780
 Glu Ser Ile Asp Ser Thr Glu Leu Ala Met Ala Ile Asn Ala Asp Tyr
 785 790 795 800
 Gly Ile Ser Ser Lys Leu Ala Met Thr Ile Thr Arg Ser Gln Gly Leu
 805 810 815
 Ser Leu Asp Lys Val Ala Ile Cys Phe Thr Pro Gly Asn Leu Arg Leu

Leu Arg Gln Leu Leu Gly Gly Val Met Ala Ala Val Cys Leu Gln Ile
 85 90 95
 Glu Glu Thr Ala Ser Ser Val Lys Phe Ala Val Cys Gly Gly Asp Gly
 100 105 110
 Gly Ala Phe Trp Gly Val Phe Asn Val Asp Pro Gln Asp Ala Asp Ala
 115 120 125
 Ala Ser Gly Val Ile Glu Asp Ala Arg Arg Ala Ile Glu Thr Ala Val
 130 135 140
 Gly Ala Val Leu Arg Ala Asn Ala Val Arg Leu Arg His Pro Leu Cys
 145 150 155 160
 Leu Ala Leu Glu Gly Val Tyr Thr His Ala Val Ala Trp Ser Gln Ala
 165 170 175
 Gly Val Trp Phe Trp Asn Ser Arg Asp Asn Thr Asp His Leu Gly Gly
 180 185 190
 Phe Pro Leu Arg Gly Pro Ala Tyr Thr Thr Ala Ala Gly Val Val Arg
 195 200 205
 Asp Thr Leu Arg Arg Val Leu Gly Leu Thr Thr Ala Cys Val Pro Glu
 210 215 220
 Glu Asp Ala Leu Thr Ala Arg Gly Leu Met Glu Asp Ala Cys Asp Arg
 225 230 235 240
 Leu Ile Leu Asp Ala Phe Asn Lys Arg Leu Asp Ala Glu Tyr Trp Ser
 245 250 255
 Val Arg Val Ser Pro Phe Glu Ala Ser Asp Pro Leu Pro Pro Thr Ala
 260 265 270
 Phe Arg Gly Gly Ala Leu Leu Asp Ala Glu His Tyr Trp Arg Arg Val
 275 280 285
 Val Arg Val Cys Pro Gly Gly Gly Glu Ser Val Gly Val Pro Val Asp
 290 295 300
 Leu Tyr Pro Arg Pro Leu Val Leu Pro Pro Val Asp Cys Ala His His
 305 310 315 320
 Leu Arg Glu Ile Leu Arg Glu Ile Glu Leu Val Phe Thr Gly Val Leu
 325 330 335

Ala

<210> 15

<211> 2253

<212> DNA

<213> Herpes Virus

<400> 15

atggacaccg cagatatcgt gtgggtggag gagagcgta ggcgcattac cctttacgcg 60
 gtatggctgc cccccgcgc tcgcgagtac ttccacgccc tgggtgattt tgtatgtcgc 120
 aacgccgcag gggagggctc gcgcgccttt gcggaggtct ccgtcaccgc gacggagctg 180

```

cgggattttct acggctccgc ggacgtctcc gtccaggccg tcgtggcggc cgcccgcgcc 240
gcgacgacgc cgccgcctc cccgtggag cccctggaga acccgactct gtggcgggcg 300
ctgtacgcgt gcgtcctggc ggccctggag cgccagaccg ggccggtggc cctgttcgcc 360
ccgctgcgta tcggctcggg cccacgcacg ggactgggtg tgaagttga gagagcgtcg 420
tgggggccgc ccgcgcgcc tcgcgcgct ctctggtcg cgagggccaa cattgacatc 480
gacctatgg cectggcggc gcgcgttgcc gagcatccc acgcgcggct ggcggtggcg 540
cgcttggcgg ccattcgcga cccccccag tgcgcgtccg ccgcttcgct gaccgttaac 600
atcaccaccg gaaccgcgct atttgcgcgc gaataccaga ctcttgcgtt tccgcgcatc 660
aagaaggagg gcgcgttcgg ggacctggtc gaggtgtgcg aggtgggcct gcgggccacgc 720
gggcacccgc aacgagtcac ggacacgggtg ctgctgcccc gcgattacga ctactttgta 780
agcgcggcgg agaagttctc cgcgcggcgg ctgctgcccc ttttcgggca gtggcatacc 840
acggtccacg ccgcccccg ggccctggcc cccgtctttg cctttctggg gcccgagttt 900
gaggtccggg ggggacccgt cccgtacttt gccgtcctgg ggtttccggg ttggccacg 960
ttcaccgtgc cggccacggc cgagtcggca cgggacctgg tgcgcggggc cgcggccgct 1020
tacgcccgcg tcctgggggc ctggcccgcg gtggggggcca gggtcgtcct cccccgcga 1080
gcctggcccg gcgtggcctc ggcggcagcc ggatgcctcc tgcccgcggt gcgggaggcg 1140
gtggcgcggt ggcacccgc cactaaaatc atccaactgt tagaccgcgc cgcggccgct 1200
gggcccgtct ggacggcgcg gttttgcttc cccggacttc gcgccagct cctggcggcc 1260
ctggccgacc tcggggggag cgggctggcg gacccccacg gccggacggg cctagcaaga 1320
ctggacgcgc tggtgggtgg cgctccctca gagccctggg ccggggccgt cttggagcgc 1380
ctggtcccgg acacgtgcaa cgctgccct gcgctgcggc agctcctggg tggggtaatg 1440
gccgcccgtc gcctgcagat cgaggagacg gccagctcgg tgaagttcgc ggtctgcggg 1500
ggcgatgggg gtgcgttctg ggggtgtctt aacgtggacc cccaagacgc ggatgcggct 1560
tccgggtgta tcgaggacgc ccggcgggcc atcgagacgg ccgtgggagc cgtgcttagg 1620
gccaacgcgc tcgggtgcg gcacccactg tgccctggcc tcgagggcgt ctacaccac 1680
gcagtcgcct ggagccaggc gggagtgtgg ttctggaact ccgcgacaa cactgacct 1740
cttgggggat ttctctccg cgggcccgcg tacaccacgg cggcaggggt cgtacgcgac 1800
acgctgcgac gggctcctgg cctgacaacg gcatgcgtgc cggaggagga cgcactcacg 1860
gcccggggcc ttatggagga cgctgcgac cgccttatct tggacgcgtt taataaacg 1920
ttggacgcgg agtactggag cgttcgggtg tcccccttg aggccagcga ccccttgccc 1980
cccactgcct tccgcggcgg cgcttgcgtg gacgcagagc actactggcg gcgcgtcgtg 2040
cgtgtctgtc ccggaggcgg ggagtcggtc ggcgccccg tcgatctata ccgcggccc 2100
cttgtgtcc ccccggtgga ctgcgtcat cactgcgcg aaatcctgcg cgagattgag 2160
ttgtgtttta ccgggtgct ggccggagta tggggcgagg gggggaagtt tgtgtatccc 2220
tttgacgaca agatgtcgtt tctgtttgcc tga 2253

```

<210> 16
 <211> 750
 <212> PRT
 <213> Herpes Virus

```

<400> 16
Met Asp Thr Ala Asp Ile Val Trp Val Glu Glu Ser Val Ser Ala Ile
  1             5             10            15

Thr Leu Tyr Ala Val Trp Leu Pro Pro Arg Ala Arg Glu Tyr Phe His
      20             25            30

Ala Leu Val Tyr Phe Val Cys Arg Asn Ala Ala Gly Glu Gly Arg Ala
      35             40            45

Arg Phe Ala Glu Val Ser Val Thr Ala Thr Glu Leu Arg Asp Phe Tyr
      50             55            60

Gly Ser Ala Asp Val Ser Val Gln Ala Val Val Ala Ala Ala Arg Ala
      65             70            75            80

Ala Thr Thr Pro Ala Ala Ser Pro Leu Glu Pro Leu Glu Asn Pro Thr
      85             90            95

```

Leu Trp Arg Ala Leu Tyr Ala Cys Val Leu Ala Ala Leu Glu Arg Gln
 100 105 110
 Thr Gly Pro Val Ala Leu Phe Ala Pro Leu Arg Ile Gly Ser Asp Pro
 115 120 125
 Arg Thr Gly Leu Val Val Lys Val Glu Arg Ala Ser Trp Gly Pro Pro
 130 135 140
 Ala Ala Pro Arg Ala Ala Leu Leu Val Ala Glu Ala Asn Ile Asp Ile
 145 150 155 160
 Asp Pro Met Ala Leu Ala Ala Arg Val Ala Glu His Pro Asp Ala Arg
 165 170 175
 Leu Ala Trp Ala Arg Leu Ala Ala Ile Arg Asp Thr Pro Gln Cys Ala
 180 185 190
 Ser Ala Ala Ser Leu Thr Val Asn Ile Thr Thr Gly Thr Ala Leu Phe
 195 200 205
 Ala Arg Glu Tyr Gln Thr Leu Ala Phe Pro Pro Ile Lys Lys Glu Gly
 210 215 220
 Ala Phe Gly Asp Leu Val Glu Val Cys Glu Val Gly Leu Arg Pro Arg
 225 230 235 240
 Gly His Pro Gln Arg Val Thr Ala Arg Val Leu Leu Pro Arg Asp Tyr
 245 250 255
 Asp Tyr Phe Val Ser Ala Gly Glu Lys Phe Ser Ala Pro Ala Leu Val
 260 265 270
 Ala Leu Phe Arg Gln Trp His Thr Thr Val His Ala Ala Pro Gly Ala
 275 280 285
 Leu Ala Pro Val Phe Ala Phe Leu Gly Pro Glu Phe Glu Val Arg Gly
 290 295 300
 Gly Pro Val Pro Tyr Phe Ala Val Leu Gly Phe Pro Gly Trp Pro Thr
 305 310 315 320
 Phe Thr Val Pro Ala Thr Ala Glu Ser Ala Arg Asp Leu Val Arg Gly
 325 330 335
 Ala Ala Ala Ala Tyr Ala Ala Leu Leu Gly Ala Trp Pro Ala Val Gly
 340 345 350
 Ala Arg Val Val Leu Pro Pro Arg Ala Trp Pro Gly Val Ala Ser Ala
 355 360 365
 Ala Ala Gly Cys Leu Leu Pro Ala Val Arg Glu Ala Val Ala Arg Trp
 370 375 380
 His Pro Ala Thr Lys Ile Ile Gln Leu Leu Asp Pro Pro Ala Ala Val
 385 390 395 400
 Gly Pro Val Trp Thr Ala Arg Phe Cys Phe Pro Gly Leu Arg Ala Gln
 405 410 415
 Leu Leu Ala Ala Leu Ala Asp Leu Gly Gly Ser Gly Leu Ala Asp Pro

420										425										430										
His Gly Arg Thr Gly Leu Ala Arg Leu Asp Ala Leu Val Val Ala Ala	435	440	445																											
Pro Ser Glu Pro Trp Ala Gly Ala Val Leu Glu Arg Leu Val Pro Asp	450	455	460																											
Thr Cys Asn Ala Cys Pro Ala Leu Arg Gln Leu Leu Gly Gly Val Met	465	470	475	480																										
Ala Ala Val Cys Leu Gln Ile Glu Glu Thr Ala Ser Ser Val Lys Phe	485	490	495																											
Ala Val Cys Gly Gly Asp Gly Gly Ala Phe Trp Gly Val Phe Asn Val	500	505	510																											
Asp Pro Gln Asp Ala Asp Ala Ala Ser Gly Val Ile Glu Asp Ala Arg	515	520	525																											
Arg Ala Ile Glu Thr Ala Val Gly Ala Val Leu Arg Ala Asn Ala Val	530	535	540																											
Arg Leu Arg His Pro Leu Cys Leu Ala Leu Glu Gly Val Tyr Thr His	545	550	555	560																										
Ala Val Ala Trp Ser Gln Ala Gly Val Trp Phe Trp Asn Ser Arg Asp	565	570	575																											
Asn Thr Asp His Leu Gly Gly Phe Pro Leu Arg Gly Pro Ala Tyr Thr	580	585	590																											
Thr Ala Ala Gly Val Val Arg Asp Thr Leu Arg Arg Val Leu Gly Leu	595	600	605																											
Thr Thr Ala Cys Val Pro Glu Glu Asp Ala Leu Thr Ala Arg Gly Leu	610	615	620																											
Met Glu Asp Ala Cys Asp Arg Leu Ile Leu Asp Ala Phe Asn Lys Arg	625	630	635	640																										
Leu Asp Ala Glu Tyr Trp Ser Val Arg Val Ser Pro Phe Glu Ala Ser	645	650	655																											
Asp Pro Leu Pro Pro Thr Ala Phe Arg Gly Gly Ala Leu Leu Asp Ala	660	665	670																											
Glu His Tyr Trp Arg Arg Val Val Arg Val Cys Pro Gly Gly Gly Glu	675	680	685																											
Ser Val Gly Val Pro Val Asp Leu Tyr Pro Arg Pro Leu Val Leu Pro	690	695	700																											
Pro Val Asp Cys Ala His His Leu Arg Glu Ile Leu Arg Glu Ile Glu	705	710	715	720																										
Leu Val Phe Thr Gly Val Leu Ala Gly Val Trp Gly Glu Gly Gly Lys	725	730	735																											
Phe Val Tyr Pro Phe Asp Asp Lys Met Ser Phe Leu Phe Ala	740	745	750																											

<210> 17
 <211> 252
 <212> DNA
 <213> Herpes Virus

<400> 17
 tgccgaaaca acgtcctcat caccgacgac ggggaggtcg tctcgtgac cgcccacgac 60
 tttgacgtcg tggatatcga gtccgaagag gaaggtaatt tctacgtgcc cccggatatg 120
 cgcgggggta cgcggggccc ggggagacag cgcctgcgtt catcggaccc cccctcgcgc 180
 cacactcacc ggcggacccc cggaggcgcc tgccccgcca ccagtttcc acccccatg 240
 tccgatagcg aa 252

<210> 18
 <211> 84
 <212> PRT
 <213> Herpes Virus

<400> 18
 Cys Arg Asn Asn Val Leu Ile Thr Asp Asp Gly Glu Val Val Ser Leu
 1 5 10 15
 Thr Ala His Asp Phe Asp Val Val Asp Ile Glu Ser Glu Glu Glu Gly
 20 25 30
 Asn Phe Tyr Val Pro Pro Asp Met Arg Gly Val Thr Arg Ala Pro Gly
 35 40 45
 Arg Gln Arg Leu Arg Ser Ser Asp Pro Pro Ser Arg His Thr His Arg
 50 55 60
 Arg Thr Pro Gly Gly Ala Cys Pro Ala Thr Gln Phe Pro Pro Pro Met
 65 70 75 80
 Ser Asp Ser Glu

<210> 19
 <211> 291
 <212> DNA
 <213> Herpes Virus

<400> 19
 atgggcctct cgttctccgg ggcccggccc tgctgctgcc gaaacaacgt cctcatcacc 60
 gacgacgggg aggtcgtctc gctgaccgcc cagcactttg acgtcgtgga tatcgagtcc 120
 gaagaggaag gtaatttcta cgtgcccccg gatatgcgcg gggttacgcg ggccccgggg 180
 agacagcgcc tgcgttcacg ggaccccccc tcgcgccaca ctcaccggcg gacccccgga 240
 ggcgccctgcc ccgccacca gtttccaccc cccatgtccg atagcgaata a 291

<210> 20
 <211> 96
 <212> PRT
 <213> Herpes Virus

<400> 20
 Met Gly Leu Ser Phe Ser Gly Ala Arg Pro Cys Cys Cys Arg Asn Asn
 1 5 10 15

Val Leu Ile Thr Asp Asp Gly Glu Val Val Ser Leu Thr Ala His Asp
20 25 30

Phe Asp Val Val Asp Ile Glu Ser Glu Glu Glu Gly Asn Phe Tyr Val
35 40 45

Pro Pro Asp Met Arg Gly Val Thr Arg Ala Pro Gly Arg Gln Arg Leu
50 55 60

Arg Ser Ser Asp Pro Pro Ser Arg His Thr His Arg Arg Thr Pro Gly
65 70 75 80

Gly Ala Cys Pro Ala Thr Gln Phe Pro Pro Pro Met Ser Asp Ser Glu
85 90 95

<210> 21
<211> 801
<212> DNA
<213> Herpes Virus

<400> 21
atggatgagt cccgcagaca gcgacctgct ggtcatgtgg cagctaacct cagcccccaa 60
ggtgcacgcc aacggtcctt caaggattgg ctgcacacct acgtacactc caacccccac 120
ggggcctccg ggcgccccag cggccctctt ctccaggacg ccgccgtctc ccgctcctcc 180
cacgggtccc gccaccgatc cggcctccgc gagcggcttc gcgcgggact atcccgatgg 240
cgaatgagcc gctcgtctca tcgcgcgcgc tcccccgaga cgcgcgttac ggcggccaaa 300
ctgaaccgcc cggccctgcg cagatcccag gcggcggtta ccgcaccccc ctcgcccccc 360
tcgcacatcc tcaccctcac gcgcacccgc aagctatgca gcccctgtgt cgccatcaac 420
cccgccttac actacacgac cctcgagatc cccggggccc gaagcttcgg ggggtctggg 480
ggatacggtg acgtccaact gattcgcgaa cataagcttg ccgttaagac cataaaggaa 540
aaggagtggg ttgcccgtga gtcacgcgc accctgttgg tcggggagtg cgttctacgc 600
gccggccgca cccacaacat ccgcggcttc atcgcgcccc tcgggttctc gctgcaacaa 660
cgacagatag tgttccccgc gtacgacatg gacctcggta agtatatcgg ccaactggcg 720
tcctgcgca caacaaaccc ctcggtctcg acggccctcc accagtgttt cacggagctg 780
gcccgcgcgc ttgtgttttt a 801

<210> 22
<211> 267
<212> PRT
<213> Herpes Virus

<400> 22
Met Asp Glu Ser Arg Arg Gln Arg Pro Ala Gly His Val Ala Ala Asn
1 5 10 15

Leu Ser Pro Gln Gly Ala Arg Gln Arg Ser Phe Lys Asp Trp Leu Ala
20 25 30

Ser Tyr Val His Ser Asn Pro His Gly Ala Ser Gly Arg Pro Ser Gly
35 40 45

Pro Ser Leu Gln Asp Ala Ala Val Ser Arg Ser Ser His Gly Ser Arg
50 55 60

His Arg Ser Gly Leu Arg Glu Arg Leu Arg Ala Gly Leu Ser Arg Trp

65		70		75		80
Arg Met Ser Arg Ser Ser His Arg Arg Ala Ser Pro Glu Thr Pro Gly						
	85			90		95
Thr Ala Ala Lys Leu Asn Arg Pro Pro Leu Arg Arg Ser Gln Ala Ala						
	100			105		110
Leu Thr Ala Pro Pro Ser Ser Pro Ser His Ile Leu Thr Leu Thr Arg						
	115			120		125
Ile Arg Lys Leu Cys Ser Pro Val Phe Ala Ile Asn Pro Ala Leu His						
	130			135		140
Tyr Thr Thr Leu Glu Ile Pro Gly Ala Arg Ser Phe Gly Gly Ser Gly						
	145			150		155
Gly Tyr Gly Asp Val Gln Leu Ile Arg Glu His Lys Leu Ala Val Lys						
	165			170		175
Thr Ile Lys Glu Lys Glu Trp Phe Ala Val Glu Leu Ile Ala Thr Leu						
	180			185		190
Leu Val Gly Glu Cys Val Leu Arg Ala Gly Arg Thr His Asn Ile Arg						
	195			200		205
Gly Phe Ile Ala Pro Leu Gly Phe Ser Leu Gln Gln Arg Gln Ile Val						
	210			215		220
Phe Pro Ala Tyr Asp Met Asp Leu Gly Lys Tyr Ile Gly Gln Leu Ala						
	225			230		235
Ser Leu Arg Thr Thr Asn Pro Ser Val Ser Thr Ala Leu His Gln Cys						
	245			250		255
Phe Thr Glu Leu Ala Arg Ala Val Val Phe Leu						
	260			265		

<210> 23

<211> 1557

<212> DNA

<213> Herpes Virus

<400> 23

atggatgagt	cccgagaca	gcgacctgct	ggatcatgtg	cagctaacct	cagcccccaa	60
gggtgcacgcc	aacggtcctt	caaggattgg	ctgcatacct	acgtacactc	caacccccac	120
ggggcctccg	ggcgccccag	cgccccctct	ctccaggacg	ccgccgtctc	ccgtcctctc	180
cacgggtccc	gccaccgatc	cgccctccgc	gagcgggttc	gcgcgggact	atcccgatgg	240
cgaatgagcc	gctcgtctca	tcgccgcgcg	tcccccgaga	cgcccgttac	ggcggccaaa	300
ctgaaccgcc	cgccccctgc	cagatcccag	gcggcggtta	ccgcaccccc	ctcgtcccc	360
tcgcacatcc	tcaccctcac	gcgcacccgc	aagctatgca	gccccgtgtt	cgccatcaac	420
cccgccctac	actacacgac	cctcgagatc	cccgggggccc	gaagcttcgg	ggggtctggg	480
ggatcgggtg	acgtccaact	gattcgcgaa	cataagcttg	ccgttaagac	cataaaggaa	540
aaggagtgg	ttgccgttga	gctcatcgcg	accctgttgg	tcggggagtg	cgttctacgc	600
gccggccgca	cccacaacat	ccgcgggttc	atcgcgcccc	tcgggttctc	gctgcaacaa	660
cgacagatag	tggtccccgc	gtacgacatg	gacctcggtg	agtatatcgg	ccaactggcg	720
tccttgcgca	caacaaaccc	ctcgggtctc	acggccctcc	accagtgttt	cacggagctg	780
gcccgcgcgc	ttgtgttttt	aaacaccacc	tgccgggatca	gccacctgga	tatcaagtgc	840
gccaacatcc	tcgtcatgct	gcggtcggac	gccgtctcgc	tcggcggggc	cgctctcgcc	900
gactttagcc	tcgtcacctc	caactccaac	tccacgatcg	cccgggggca	gttttgcttc	960

```

caggagccgg acctcaagtc ccccgggatg tttggcatgc ccaccgccct aaccacagcc 1020
aactttcaca ccctggtggg tcacgggtat aaccagcccc cggagctggt ggtgaaatac 1080
cttaacaacg aacggggccga atttaccac caccgcctga agcacgacgt cgggtagcgt 1140
gttgacctgt acgccctggg ccagacgctg ctggagttgg tggtagcgt gtacgtcgcc 1200
ccgagcctgg gcgtaccgt gaccgggtt cccggttacc agtattttaa caaccagctg 1260
tcgccggact tcgccctggc cctgctcgcc tatcgctgcg tgctgcaccc agccctgttt 1320
gtcaactcgg ccgagaccaa caccacggc ctggcgatg acgtcccaga gggcatccgg 1380
cgccacctcc gcaatcccaa gattcggcgc gcgtttacgg atcggtgtat aaattaccag 1440
cacacacaca aggcgatact gtcgtcggtg gcgtgcctc ccgagcttaa gcctctcctg 1500
gtgctggtgt cccgcctgtg tcacaccaac ccgtgcgcgc ggcacgcgct gtcgtga 1557

```

<210> 24
 <211> 518
 <212> PRT
 <213> Herpes Virus

```

<400> 24
Met Asp Glu Ser Arg Arg Gln Arg Pro Ala Gly His Val Ala Ala Asn
 1             5             10             15

Leu Ser Pro Gln Gly Ala Arg Gln Arg Ser Phe Lys Asp Trp Leu Ala
      20             25             30

Ser Tyr Val His Ser Asn Pro His Gly Ala Ser Gly Arg Pro Ser Gly
      35             40             45

Pro Ser Leu Gln Asp Ala Ala Val Ser Arg Ser Ser His Gly Ser Arg
      50             55             60

His Arg Ser Gly Leu Arg Glu Arg Leu Arg Ala Gly Leu Ser Arg Trp
      65             70             75             80

Arg Met Ser Arg Ser Ser His Arg Arg Ala Ser Pro Glu Thr Pro Gly
      85             90             95

Thr Ala Ala Lys Leu Asn Arg Pro Pro Leu Arg Arg Ser Gln Ala Ala
      100            105            110

Leu Thr Ala Pro Pro Ser Ser Pro Ser His Ile Leu Thr Leu Thr Arg
      115            120            125

Ile Arg Lys Leu Cys Ser Pro Val Phe Ala Ile Asn Pro Ala Leu His
      130            135            140

Tyr Thr Thr Leu Glu Ile Pro Gly Ala Arg Ser Phe Gly Gly Ser Gly
      145            150            155            160

Gly Tyr Gly Asp Val Gln Leu Ile Arg Glu His Lys Leu Ala Val Lys
      165            170            175

Thr Ile Lys Glu Lys Glu Trp Phe Ala Val Glu Leu Ile Ala Thr Leu
      180            185            190

Leu Val Gly Glu Cys Val Leu Arg Ala Gly Arg Thr His Asn Ile Arg
      195            200            205

Gly Phe Ile Ala Pro Leu Gly Phe Ser Leu Gln Gln Arg Gln Ile Val
      210            215            220

Phe Pro Ala Tyr Asp Met Asp Leu Gly Lys Tyr Ile Gly Gln Leu Ala

```

225		230		235		240
Ser Leu Arg Thr	Thr Asn Pro Ser Val	Ser Thr Ala Leu His Gln Cys				
	245	250			255	
Phe Thr Glu Leu	Ala Arg Ala Val Val	Phe Leu Asn Thr Thr Cys Gly				
	260	265			270	
Ile Ser His Leu	Asp Ile Lys Cys Ala Asn Ile Leu Val Met Leu Arg					
	275	280			285	
Ser Asp Ala Val	Ser Leu Arg Arg Ala Val	Leu Ala Asp Phe Ser Leu				
	290	295		300		
Val Thr Leu Asn	Ser Asn Ser Thr Ile Ala Arg Gly Gln Phe Cys Leu					
305	310	315			320	
Gln Glu Pro Asp	Leu Lys Ser Pro Arg Met Phe Gly Met Pro Thr Ala					
	325	330			335	
Leu Thr Thr Ala	Asn Phe His Thr Leu Val Gly His Gly Tyr Asn Gln					
	340	345			350	
Pro Pro Glu Leu	Leu Val Lys Tyr Leu Asn Asn Glu Arg Ala Glu Phe					
	355	360		365		
Thr Asn His Arg	Leu Lys His Asp Val Gly Leu Ala Val Asp Leu Tyr					
	370	375		380		
Ala Leu Gly Gln	Thr Leu Leu Glu Leu Val Val Ser Val Tyr Val Ala					
385	390	395			400	
Pro Ser Leu Gly	Val Pro Val Thr Arg Phe Pro Gly Tyr Gln Tyr Phe					
	405	410			415	
Asn Asn Gln Leu	Ser Pro Asp Phe Ala Leu Ala Leu Leu Ala Tyr Arg					
	420	425			430	
Cys Val Leu His	Pro Ala Leu Phe Val Asn Ser Ala Glu Thr Asn Thr					
	435	440			445	
His Gly Leu Ala	Tyr Asp Val Pro Glu Gly Ile Arg Arg His Leu Arg					
	450	455		460		
Asn Pro Lys Ile	Arg Arg Ala Phe Thr Asp Arg Cys Ile Asn Tyr Gln					
465	470	475			480	
His Thr His Lys	Ala Ile Leu Ser Ser Val Ala Leu Pro Pro Glu Leu					
	485	490			495	
Lys Pro Leu Leu	Val Leu Val Ser Arg Leu Cys His Thr Asn Pro Cys					
	500	505			510	
Ala Arg His Ala	Leu Ser					
	515					

<210> 25
 <211> 312
 <212> DNA
 <213> Herpes Virus

<400> 25
cagcagtacc tggagcgcct cgagaaacag aggcaactta aggtggggcgc ggacgaggcg 60
tcggcgggcc tcaccatggg cggcgatgcc ctacgagtgc cctttttaga tttcgcgacc 120
gcgacccccca agcgccacca gaccgtggtc cctggcgctcg ggacgctcca cgactgctgc 180
gagcactcgc cgctcttctc ggccgtggcg cggcggctgc tgtttaatag cctggtgccg 240
gcgcaactaa aggggcgtga tttcgggggc gaccacacgg ccaagctgga attcctggcc 300
cccgagttgg ta 312

<210> 26
<211> 104
<212> PRT
<213> Herpes Virus

<400> 26
Gln Gln Tyr Leu Glu Arg Leu Glu Lys Gln Arg Gln Leu Lys Val Gly
1 5 10 15
Ala Asp Glu Ala Ser Ala Gly Leu Thr Met Gly Gly Asp Ala Leu Arg
20 25 30
Val Pro Phe Leu Asp Phe Ala Thr Ala Thr Pro Lys Arg His Gln Thr
35 40 45
Val Val Pro Gly Val Gly Thr Leu His Asp Cys Cys Glu His Ser Pro
50 55 60
Leu Phe Ser Ala Val Ala Arg Arg Leu Leu Phe Asn Ser Leu Val Pro
65 70 75 80
Ala Gln Leu Lys Gly Arg Asp Phe Gly Gly Asp His Thr Ala Lys Leu
85 90 95
Glu Phe Leu Ala Pro Glu Leu Val
100

<210> 27
<211> 2208
<212> DNA
<213> Herpes Virus

<400> 27
atgttttggtc agcagctggc gtccgacgtc cagcagtacc tggagcgcct cgagaaacag 60
aggcaactta aggtggggcgc ggacgaggcg tcggcgggcc tcaccatggg cggcgatgcc 120
ctacgagtgc cctttttaga tttcgcgacc gcgacccccca agcgccacca gaccgtggtc 180
cctggcgctcg ggacgctcca cgactgctgc gagcactcgc cgctcttctc ggccgtggcg 240
cggcggctgc tgtttaatag cctggtgccg gcgcaactaa aggggcgtga tttcgggggc 300
gaccacacgg ccaagctgga attcctggcc cccgagttgg tacgggcggg ggcgcgactg 360
cggtttaagg agtgcgcgcc ggccgacgtg gtgcctcagc gtaacgccta ctatagcgtt 420
ctgaatacgt ttcaggccct ccaccgctcc gaagcctttc gccagctggg gcactttgtg 480
cgggactttg cccagctgct caaaacctcc ttcggggcct ccagcctcac ggagaccacg 540
ggccccccca aaaaacgggc caaggtggac gtggccaccc acggccggac gtacggcacg 600
ctggagctgt tccaaaaaat gatccttatg cacgccacct actttctggc cgccgtgctc 660
ctcggggacc acgcggagca ggtcaacacg ttcctgcgtc tcgtgtttga gatccccctg 720
tttagcgagc cgccgtgctg ccacttcgcg cagcgcgcca ccgtgtttct cgtcccccg 780
cgccacggca agacctggtt tctggtgccc ctcctcgcgc tgcctgctggc ctcttttcgg 840
gggatcaaga tcggctacac ggcgcacatc cgcaaggcga ccgagccggg gtttgaggag 900
atcgacgcct gcctgcgggg ctggttcggg tcggcccagag tggaccacgt taaaggggaa 960
accatctcct tctcgtttcc ggacgggctc gcgagtacca tcgtgtttgc ctccagccac 1020

```

aacacaaaacg gaatccgagg ccaggacttt aacctgctct ttgtcgacga ggccaacttt 1080
attcgcccg atgcggtcca gacgattatg ggctttctca accaggccaa ctgcaagatt 1140
atcttcgtgt cgtccaccaa caccgggaag gccagtacga gctttttgta caacctccgc 1200
ggggccgcag acgagcttct caacgtgggtg acctatata gcgatgatca catgccgagg 1260
gtggtgacgc acacaaacgc cacggcctgt tcttggtata tcctcaacaa gcccgttttc 1320
atcacgatgg acggggcggt tcgccggacc gccgatttgt ttctggccga ttccttcattg 1380
caggagatca tcgggggcca ggccaggag accggcgacg accggcccg tctgaccaag 1440
tctcgggggg agcggtttct gttgtaccgc ccctcgacca ccaccaacag cggcctcatg 1500
gcccccgatt tgtacgtgta cgtggatccc gcgttcacgg ccaacaccgg agcctccggg 1560
accggcgctg ctgtcgtcgg gcgtaccgc gacgattata tcatcttcgc cctggagcac 1620
ttttttctcc gcgcgtcac ggcctcgccc cccgccgaca tcgcccgtg cgtcgtccac 1680
agtctgacgc aggtcctggc cctgcatccc ggggcgttcc gcggcgctcg ggtggcggtc 1740
gagggaaata gcagccagga ctcggccgct gccatcgcca cgcacgtgca cacagagatg 1800
caccgcctac tggcctcgga gggggccgac gcgggctcgg gccccgagct tctcttctac 1860
cactcgagac ctcccgggag cgcggtgctg taccctttt tcctgctcaa caaacagaag 1920
acgcccgcct ttgaacactt tattaataaag tttaactccg ggggcgtcat ggcctcccag 1980
gagatcgttt ccgcgacggg gcgctgcag accgaccgg tcgagtatct gctcgagcac 2040
ctaaataacc tcaccgaaac cgtctcccc aacactgacg tccgtacgta ttccggaaaa 2100
cggaacggcg cctcggatga ccttatggtc gccgtcatta tggccatcta cctcgcggcc 2160
caggccggac ctccgcacac attcgctcct atcacacgcg tctcgtga 2208

```

<210> 28
 <211> 735
 <212> PRT
 <213> Herpes Virus

```

<400> 28
Met Phe Gly Gln Gln Leu Ala Ser Asp Val Gln Gln Tyr Leu Glu Arg
  1             5             10             15

Leu Glu Lys Gln Arg Gln Leu Lys Val Gly Ala Asp Glu Ala Ser Ala
      20             25             30

Gly Leu Thr Met Gly Gly Asp Ala Leu Arg Val Pro Phe Leu Asp Phe
      35             40             45

Ala Thr Ala Thr Pro Lys Arg His Gln Thr Val Val Pro Gly Val Gly
      50             55             60

Thr Leu His Asp Cys Cys Glu His Ser Pro Leu Phe Ser Ala Val Ala
      65             70             75             80

Arg Arg Leu Leu Phe Asn Ser Leu Val Pro Ala Gln Leu Lys Gly Arg
      85             90             95

Asp Phe Gly Gly Asp His Thr Ala Lys Leu Glu Phe Leu Ala Pro Glu
      100            105            110

Leu Val Arg Ala Val Ala Arg Leu Arg Phe Lys Glu Cys Ala Pro Ala
      115            120            125

Asp Val Val Pro Gln Arg Asn Ala Tyr Tyr Ser Val Leu Asn Thr Phe
      130            135            140

Gln Ala Leu His Arg Ser Glu Ala Phe Arg Gln Leu Val His Phe Val
      145            150            155            160

Arg Asp Phe Ala Gln Leu Leu Lys Thr Ser Phe Arg Ala Ser Ser Leu
      165            170            175

```

Thr Glu Thr Thr Gly Pro Pro Lys Lys Arg Ala Lys Val Asp Val Ala
 180 185 190
 Thr His Gly Arg Thr Tyr Gly Thr Leu Glu Leu Phe Gln Lys Met Ile
 195 200 205
 Leu Met His Ala Thr Tyr Phe Leu Ala Ala Val Leu Leu Gly Asp His
 210 215 220
 Ala Glu Gln Val Asn Thr Phe Leu Arg Leu Val Phe Glu Ile Pro Leu
 225 230 235 240
 Phe Ser Asp Ala Ala Val Arg His Phe Arg Gln Arg Ala Thr Val Phe
 245 250 255
 Leu Val Pro Arg Arg His Gly Lys Thr Trp Phe Leu Val Pro Leu Ile
 260 265 270
 Ala Leu Ser Leu Ala Ser Phe Arg Gly Ile Lys Ile Gly Tyr Thr Ala
 275 280 285
 His Ile Arg Lys Ala Thr Glu Pro Val Phe Glu Glu Ile Asp Ala Cys
 290 295 300
 Leu Arg Gly Trp Phe Gly Ser Ala Arg Val Asp His Val Lys Gly Glu
 305 310 315 320
 Thr Ile Ser Phe Ser Phe Pro Asp Gly Ser Arg Ser Thr Ile Val Phe
 325 330 335
 Ala Ser Ser His Asn Thr Asn Gly Ile Arg Gly Gln Asp Phe Asn Leu
 340 345 350
 Leu Phe Val Asp Glu Ala Asn Phe Ile Arg Pro Asp Ala Val Gln Thr
 355 360 365
 Ile Met Gly Phe Leu Asn Gln Ala Asn Cys Lys Ile Ile Phe Val Ser
 370 375 380
 Ser Thr Asn Thr Gly Lys Ala Ser Thr Ser Phe Leu Tyr Asn Leu Arg
 385 390 395 400
 Gly Ala Ala Asp Glu Leu Leu Asn Val Val Thr Tyr Ile Cys Asp Asp
 405 410 415
 His Met Pro Arg Val Val Thr His Thr Asn Ala Thr Ala Cys Ser Cys
 420 425 430
 Tyr Ile Leu Asn Lys Pro Val Phe Ile Thr Met Asp Gly Ala Val Arg
 435 440 445
 Arg Thr Ala Asp Leu Phe Leu Ala Asp Ser Phe Met Gln Glu Ile Ile
 450 455 460
 Gly Gly Gln Ala Arg Glu Thr Gly Asp Asp Arg Pro Val Leu Thr Lys
 465 470 475 480
 Ser Ala Gly Glu Arg Phe Leu Leu Tyr Arg Pro Ser Thr Thr Thr Asn
 485 490 495
 Ser Gly Leu Met Ala Pro Asp Leu Tyr Val Tyr Val Asp Pro Ala Phe

500					505					510					
Thr	Ala	Asn	Thr	Arg	Ala	Ser	Gly	Thr	Gly	Val	Ala	Val	Val	Gly	Arg
	515						520					525			
Tyr	Arg	Asp	Asp	Tyr	Ile	Ile	Phe	Ala	Leu	Glu	His	Phe	Phe	Leu	Arg
	530					535					540				
Ala	Leu	Thr	Gly	Ser	Ala	Pro	Ala	Asp	Ile	Ala	Arg	Cys	Val	Val	His
545					550					555					560
Ser	Leu	Thr	Gln	Val	Leu	Ala	Leu	His	Pro	Gly	Ala	Phe	Arg	Gly	Val
			565						570					575	
Arg	Val	Ala	Val	Glu	Gly	Asn	Ser	Ser	Gln	Asp	Ser	Ala	Val	Ala	Ile
			580					585					590		
Ala	Thr	His	Val	His	Thr	Glu	Met	His	Arg	Leu	Leu	Ala	Ser	Glu	Gly
	595						600					605			
Ala	Asp	Ala	Gly	Ser	Gly	Pro	Glu	Leu	Leu	Phe	Tyr	His	Cys	Glu	Pro
	610					615					620				
Pro	Gly	Ser	Ala	Val	Leu	Tyr	Pro	Phe	Phe	Leu	Leu	Asn	Lys	Gln	Lys
625					630					635					640
Thr	Pro	Ala	Phe	Glu	His	Phe	Ile	Lys	Lys	Phe	Asn	Ser	Gly	Gly	Val
			645					650						655	
Met	Ala	Ser	Gln	Glu	Ile	Val	Ser	Ala	Thr	Val	Arg	Leu	Gln	Thr	Asp
			660					665					670		
Pro	Val	Glu	Tyr	Leu	Leu	Glu	Gln	Leu	Asn	Asn	Leu	Thr	Glu	Thr	Val
	675					680					685				
Ser	Pro	Asn	Thr	Asp	Val	Arg	Thr	Tyr	Ser	Gly	Lys	Arg	Asn	Gly	Ala
	690					695					700				
Ser	Asp	Asp	Leu	Met	Val	Ala	Val	Ile	Met	Ala	Ile	Tyr	Leu	Ala	Ala
705					710					715				720	
Gln	Ala	Gly	Pro	Pro	His	Thr	Phe	Ala	Pro	Ile	Thr	Arg	Val	Ser	
			725						730					735	

<210> 29
 <211> 312
 <212> DNA
 <213> Herpes Virus

<400> 29
 aacgcactgt ggctctcctc cgtcgtaacg gagtcctgtc cctgcgtcgc cccgtgtctg 60
 tgggccaaaga tggcccagtg taccctggcg gtccaggggg atgctagcct gtgtccgctt 120
 ctctttggcc atcccgtgga tacggtcacc ctgctgcagg cccccgcgc tccttgcatc 180
 acggaccgtc tgcaagaggt cgtcggggga cggtcggcg cggacaacat cccccgacc 240
 agcgccgggt ggcgcctgtg tgtcttctct tcgtacatca gtcgcctatt tgctacgagt 300
 tgccccaccg tt 312

<210> 30
 <211> 104

<212> PRT
 <213> Herpes Virus

<400> 30
 Asn Ala Leu Trp Leu Ser Ser Val Val Thr Glu Ser Cys Pro Cys Val
 1 5 10 15
 Ala Pro Cys Leu Trp Ala Lys Met Ala Gln Cys Thr Leu Ala Val Gln
 20 25 30
 Gly Asp Ala Ser Leu Cys Pro Leu Leu Phe Gly His Pro Val Asp Thr
 35 40 45
 Val Thr Leu Leu Gln Ala Pro Arg Arg Pro Cys Ile Thr Asp Arg Leu
 50 55 60
 Gln Glu Val Val Gly Gly Arg Cys Gly Ala Asp Asn Ile Pro Pro Thr
 65 70 75 80
 Ser Ala Gly Trp Arg Leu Cys Val Phe Ser Ser Tyr Ile Ser Arg Leu
 85 90 95
 Phe Ala Thr Ser Cys Pro Thr Val
 100

<210> 31
 <211> 1122
 <212> DNA
 <213> Herpes Virus

<400> 31
 atggcgcagc tgggaccccg gcgcccccctg gcgcgcgctg gtcccccggg gaccttgccc 60
 cgcccggtatt cccggggccgg agctcgcggc acgcgcgata gactcgacga cctgggggacg 120
 gacgtcgact ctatcgcgcg cattgtcaac tccgtctttg tgtggcgcggt cggttcggggcg 180
 gacgagcggc tcaagatctt tcggtgtcta acggctctca ccgagcctct gtgtcagggtg 240
 gcccttccta acccagaccc cgggcgcgcc ctcttctgcg agatttttct gtatctgacg 300
 cgccccaaagg cgtgcggtt gcccccgaa accttctttg ccctcttttt ctttaaccgc 360
 gagcgccgct actgcgcgat cgtccacctc cggagcgtga cgcacccct gaccccgctc 420
 ctgtgcaccc tcacgttcgc acgcatacgg gcggccaccc ccccgaggga aacccccgac 480
 ccaaccaccg aacagctcgc ggaggagcca gtggtcggcg agctggatgg cgcgtatctg 540
 gtccccgcga agaccccccc ggagccgggc gcgtgctgcg ccttggggccc gggggccttg 600
 tggcacctcc ccagcgcca gatctactgc tgggccaatg acagcgacct ggggtcgctc 660
 tgtccaccgg gaagcagggc ccgccatctg ggatggctcc tggccaggat caccaaccac 720
 ccgggggggct gcgagtcctg cgcgccgcc cccacatcg attccgcaa cgcactgtgg 780
 ctctcctccg tcgtaacgga gtctgtccc tgcgtcgccc cgtgtctgtg ggccaagatg 840
 gccagtgta ccctggcggt ccagggggat gctagcctgt gtccgcttct ctttggccat 900
 cccgtggata cggtcaccct gctgcaggcc ccccgccgct cttgcatcac ggaccgtctg 960
 caagaggtcg tcgggggacg gtgcggcgcg gacaacatcc ccccgaccag cgccgggtgg 1020
 cgcctgtgtg tcttctcttc gtacatcagt cgcctatttg ctacgagttg cccaccggt 1080
 gcccgggcgc ttgcccgggc ctctcaagc gatcccgaa aa 1122

<210> 32
 <211> 373
 <212> PRT
 <213> Herpes Virus

<400> 32
 Met Ala Gln Leu Gly Pro Arg Arg Pro Leu Ala Pro Pro Gly Pro Pro
 1 5 10 15

Gly Thr Leu Pro Arg Pro Asp Ser Arg Ala Gly Ala Arg Gly Thr Arg
 20 25 30
 Asp Arg Val Asp Asp Leu Gly Thr Asp Val Asp Ser Ile Ala Arg Ile
 35 40 45
 Val Asn Ser Val Phe Val Trp Arg Val Val Arg Ala Asp Glu Arg Leu
 50 55 60
 Lys Ile Phe Arg Cys Leu Thr Val Leu Thr Glu Pro Leu Cys Gln Val
 65 70 75 80
 Ala Leu Pro Asn Pro Asp Pro Gly Arg Ala Leu Phe Cys Glu Ile Phe
 85 90 95
 Leu Tyr Leu Thr Arg Pro Lys Ala Leu Arg Leu Pro Pro Asn Thr Phe
 100 105 110
 Phe Ala Leu Phe Phe Phe Asn Arg Glu Arg Arg Tyr Cys Ala Ile Val
 115 120 125
 His Leu Arg Ser Val Thr His Pro Leu Thr Pro Leu Leu Cys Thr Leu
 130 135 140
 Thr Phe Ala Arg Ile Arg Ala Ala Thr Pro Pro Glu Glu Thr Pro Asp
 145 150 155 160
 Pro Thr Thr Glu Gln Leu Ala Glu Glu Pro Val Val Gly Glu Leu Asp
 165 170 175
 Gly Ala Tyr Leu Val Pro Ala Lys Thr Pro Pro Glu Pro Gly Ala Cys
 180 185 190
 Cys Ala Leu Gly Pro Gly Ala Trp Trp His Leu Pro Ser Gly Gln Ile
 195 200 205
 Tyr Cys Trp Ala Met Asp Ser Asp Leu Gly Ser Leu Cys Pro Pro Gly
 210 215 220
 Ser Arg Ala Arg His Leu Gly Trp Leu Leu Ala Arg Ile Thr Asn His
 225 230 235 240
 Pro Gly Gly Cys Glu Ser Cys Ala Pro Pro Pro His Ile Asp Ser Ala
 245 250 255
 Asn Ala Leu Trp Leu Ser Ser Val Val Thr Glu Ser Cys Pro Cys Val
 260 265 270
 Ala Pro Cys Leu Trp Ala Lys Met Ala Gln Cys Thr Leu Ala Val Gln
 275 280 285
 Gly Asp Ala Ser Leu Cys Pro Leu Leu Phe Gly His Pro Val Asp Thr
 290 295 300
 Val Thr Leu Leu Gln Ala Pro Arg Arg Pro Cys Ile Thr Asp Arg Leu
 305 310 315 320
 Gln Glu Val Val Gly Gly Arg Cys Gly Ala Asp Asn Ile Pro Pro Thr
 325 330 335

Ser Ala Gly Trp Arg Leu Cys Val Phe Ser Ser Tyr Ile Ser Arg Leu
 340 345 350

Phe Ala Thr Ser Cys Pro Thr Val Ala Arg Ala Val Ala Arg Ala Ser
 355 360 365

Ser Ser Asp Pro Glu
 370

<210> 33
 <211> 1425
 <212> DNA
 <213> Herpes Virus

<400> 33
 tgggtggggg aggtgaccag gcgcttcccc attctcctcg agaacctgat gcgcgccgtc 60
 gaggggaccg ccccgacgc cttttttcac accgcgtatg ccctggccgt cctggcacac 120
 ctggggggac ggggcggtcg ggggcggcgg gtcgtcccg ccccgacga cctcccgccc 180
 cgctttgccc actccgacgg ccattacgtt ttgactact acagcacaag cggagacacg 240
 ctgcggctta acaatcgctc aatcgccgtg gcgatggatg gtgacgtcag taaacgcgag 300
 cagagtaaat gtcgcttcat ggaggccgtc cctccacag ccccgacga ggtctgcgag 360
 caatacctgc ccggggaaaag ctacgcctac ctctgcctgg ggtttaatcg ccgcctctgt 420
 ggcatagttg tctttcccg cggttttgcg ttcaccatta acatcgccgc ctaccttagc 480
 ctctcgacc ccgctcgcg ggccgctgtc cttaggtttt gtcgcaaggt gtcgtccggg 540
 aacggccggg ctcgctagcg ggcgccttc cccggccacc tcgcccccc actcctcccc 600
 gcgcggttg ccccgccctc tggggtttgc cctccccccg ccccgccat ggcgcagctg 660
 ggaccccgcc ggcctcgcc gccgcctgg ccccgggga ccttgcccc gccggattcc 720
 cgggcgggag ctcgcgccac gcgcgataga gtcgacgacc tggggacgga cgtcgactct 780
 atcgcgcgca ttgtcaactc cgtctttgtg tggcgcgctg ttcgggcgga cgagcggtc 840
 aagatctttc ggtgtctaac ggtcctcacc gagcctctgt gtcaggtggc ccttcctaac 900
 ccagaccccg ggcgcgcct cttctgcgag atttttctgt atctgacgcg cccaaggcg 960
 ctgcggttgc ccccgaaacac cttctttgcc ctctttttct ttaaccgga gcgcgctac 1020
 tgcgcgatcg tccacctccg gagcgtgacg caccctga ccccgctct gtgacacctc 1080
 acgttcgcac gcatacggc gccaccccc ccggaggaaa ccccgaccc aaccaccgaa 1140
 cagctcgcg aggagccagt ggtcgcgag ctggatggcg cgtatctggt ccccgcaag 1200
 acccccccg agccgggcgc gtgctgcgcc ttgggcccgg ggcctggtg gcacctcccc 1260
 agcggccaga tctactgctg ggccatggac agcgacctg ggtcgctctg tccaccggga 1320
 agcagggcc gccatctgg atggctcctg gccaggatca ccaaccaccc ggggggctgc 1380
 gagtctgcg ccccgccgcc ccacatcgat tccgccaacg cactg 1425

<210> 34
 <211> 185
 <212> PRT
 <213> Herpes Virus

<400> 34
 Trp Leu Gly Glu Val Thr Arg Arg Phe Pro Ile Leu Leu Glu Asn Leu
 1 5 10 15
 Met Arg Ala Val Glu Gly Thr Ala Pro Asp Ala Phe Phe His Thr Ala
 20 25 30
 Tyr Ala Leu Ala Val Leu Ala His Leu Gly Gly Arg Gly Gly Arg Gly
 35 40 45
 Arg Arg Val Val Pro Leu Gly Asp Asp Leu Pro Ala Arg Phe Ala Asp
 50 55 60
 Ser Asp Gly His Tyr Val Phe Asp Tyr Tyr Ser Thr Ser Gly Asp Thr

65		70		75		80
Leu Arg Leu Asn Asn Arg Pro Ile Ala Val Ala Met Asp Gly Asp Val						
	85			90		95
Ser Lys Arg Glu Gln Ser Lys Cys Arg Phe Met Glu Ala Val Pro Ser						
	100		105		110	
Thr Ala Pro Arg Arg Val Cys Glu Gln Tyr Leu Pro Gly Glu Ser Tyr						
	115		120		125	
Ala Tyr Leu Cys Leu Gly Phe Asn Arg Arg Leu Cys Gly Ile Val Val						
	130		135		140	
Phe Pro Gly Gly Phe Ala Phe Thr Ile Asn Ile Ala Ala Tyr Leu Ser						
	145		150		155	160
Leu Ser Asp Pro Val Ala Arg Ala Ala Val Leu Arg Phe Cys Arg Lys						
	165		170		175	
Val Ser Ser Gly Asn Gly Arg Ser Arg						
	180		185			

<210> 35
 <211> 1068
 <212> DNA
 <213> Herpes Virus

<400> 35
 gccaacgagg tccagacgat ctcggccacg gcccggtcg gccctcggtc tttggttcac 60
 gtcacatcat ccagcgagtg cctggcggcc gcgggaatcc ctctggccgc cctgatgcgc 120
 ggccgccccg gactcgggac ggccgcaaac ttccaggtcg aaatccagac tcggggtcat 180
 gccaccggcg actgtacccc gtggtgcacg gcgtttgccg cctacgtgcc cgcggatgcg 240
 gtggggggagc ttctggcccc cgctgtgccg gcacaccctg gcctccttcc gcgtgcgtcc 300
 agcgccgggg ggttggtcgt ctccctgccc gtggtgtgtg acgcgcaggg cgtctatgac 360
 ccgtacgccg tggcggcgct gcgccttgcg tggggctcgg gggcgagctg tgcccgcgtg 420
 attctgttta gttacgacga gctcgtcccc cccaacacgc gctacgcggc cgacagcacg 480
 cgcacatcat gcgtctgtcg gcatttgtgc cgctacgtcg ctctgcttgg cgccgccgcc 540
 ccgccggccg cgaaggaggc tgcggccac ctgtccatgg gtctggggga aagcgcgtcc 600
 ccgcgtccgc agcccttggc ccggcccccac gcggggggcg ccgcagaccc gcccatcgct 660
 ggggcgtccg acccccccat ccccccggag gagcagctga cggcccccg cggcgcacacg 720
 accgcggccc aggaagtgtc catcgcacag gagaacgagg agatcctcgc gttggttcag 780
 cgggcagtgc aggacgtcac ccgccccac ccggtccgag cgcggaccgg gcgtgcggcc 840
 tgtggcggtt catcggggct acgccagggc gccctggttc accaggccgt cagcgggggc 900
 gccatggggg cggctgacgc agatgcggtg ctggcgggtc tggagcccc cggcgggggc 960
 cgctttgttg cccagcgcc ccacgggccc gggggcgagg acatcctgaa cgacgttcta 1020
 acccttacc cttgtaccgc aaagccgcgg tcgctggtcg agtggttg 1068

<210> 36
 <211> 356
 <212> PRT
 <213> Herpes Virus

<400> 36
 Ala Asn Glu Val Gln Thr Ile Ser Ala Thr Ala Arg Val Gly Pro Arg
 1 5 10 15
 Ser Leu Val His Val Ile Ile Ser Ser Glu Cys Leu Ala Ala Ala Gly
 20 25 30

Ile Pro Leu Ala Ala Leu Met Arg Gly Arg Pro Gly Leu Gly Thr Ala
 35 40 45
 Ala Asn Phe Gln Val Glu Ile Gln Thr Arg Ala His Ala Thr Gly Asp
 50 55 60
 Cys Thr Pro Trp Cys Thr Ala Phe Ala Ala Tyr Val Pro Ala Asp Ala
 65 70 75 80
 Val Gly Glu Leu Leu Ala Pro Val Val Pro Ala His Pro Gly Leu Leu
 85 90 95
 Pro Arg Ala Ser Ser Ala Gly Gly Leu Phe Val Ser Leu Pro Val Val
 100 105 110
 Cys Asp Ala Gln Gly Val Tyr Asp Pro Tyr Ala Val Ala Ala Leu Arg
 115 120 125
 Leu Ala Trp Gly Ser Gly Ala Ser Cys Ala Arg Val Ile Leu Phe Ser
 130 135 140
 Tyr Asp Glu Leu Val Pro Pro Asn Thr Arg Tyr Ala Ala Asp Ser Thr
 145 150 155 160
 Arg Ile Met Arg Val Cys Arg His Leu Cys Arg Tyr Val Ala Leu Leu
 165 170 175
 Gly Ala Ala Ala Pro Pro Ala Ala Lys Glu Ala Ala Ala His Leu Ser
 180 185 190
 Met Gly Leu Gly Glu Ser Ala Ser Pro Arg Pro Gln Pro Leu Ala Arg
 195 200 205
 Pro His Ala Gly Ala Pro Ala Asp Pro Pro Ile Val Gly Ala Ser Asp
 210 215 220
 Pro Pro Ile Ser Pro Glu Glu Gln Leu Thr Ala Pro Gly Gly Asp Thr
 225 230 235 240
 Thr Ala Ala Gln Asp Val Ser Ile Ala Gln Glu Asn Glu Glu Ile Leu
 245 250 255
 Ala Leu Val Gln Arg Ala Val Gln Asp Val Thr Arg Arg His Pro Val
 260 265 270
 Arg Ala Arg Thr Gly Arg Ala Ala Cys Gly Val Ala Ser Gly Leu Arg
 275 280 285
 Gln Gly Ala Leu Val His Gln Ala Val Ser Gly Gly Ala Met Gly Ala
 290 295 300
 Ala Asp Ala Asp Ala Val Leu Ala Gly Leu Glu Pro Pro Gly Gly Gly
 305 310 315 320
 Arg Phe Val Ala Pro Ala Pro His Gly Pro Gly Gly Glu Asp Ile Leu
 325 330 335
 Asn Asp Val Leu Thr Leu Thr Pro Gly Thr Ala Lys Pro Arg Ser Leu
 340 345 350

Val Glu Trp Leu
355

<210> 37
<211> 1056
<212> DNA
<213> Herpes Virus

<400> 37
gttctaacc ttaccctgg taccgcaaag ccgcgggtcgc tggtcgagtg gttggatcgc 60
ggatgggaag ccctggccgg cggcgaccgg ccggactggc tgtggagccg tcgttctatc 120
tccgtggtcc tgcgccacca ctacggaacc aagcagcgct tcgtcgtcgt ctctacgag 180
aactccgtgg cgtggggcgg gcgacgcgcc cgccctccgc tgcgtgcctc ggcgctggcc 240
acggccctga ccgaggcctg cggcgagaa cgcgctcgtc gccccacca gctgtctccc 300
gctgggcagg cggagctgct gctacgcttt ccgcgcctcg aggtgccccct gcgccaccgc 360
cgcccgtcc tgcgcctt tgacatcgcc ggcgaggtcg cctttaccgc gcgcatacat 420
ctggcgtgcc tccgggcccct gggccaggcc atccggggcg cgcttcaggg cggcccgcga 480
atctcacagc gcctgcgcta tgactttggc cccgaccaac gcgcgtggtt gggggagggtg 540
accaggcgct tcccattct cctcgagaac ctgatgcgcg ccgtcgaggg gaccgcccc 600
gacgcctttt ttcacaccgc gtatgcctg gccgtcctgg cacacctggg gggacggggc 660
ggtcgggggc ggcgggtcgt cccgctcggc gacgacctcc cggcccgctt tgcgcactcc 720
gacggccatt acgtttttga ctactacagc acaagcggag acacgctgcg gcttaacaat 780
cgtccaatcg ccgtggcgat ggatggtgac gtcagtaaac gcgagcagag taaatgtcgc 840
ttcatggagg ccgtccctc cacagcccca cgcagggtct gcgagcaata cctgcccggg 900
gaaagctacg cctacctctg cctgggggtt aatcgccgcc tctgtggcat agttgtcttt 960
cccgcgcgct ttgcgttcac cattaacatc gcggcctacc ttagcctctc ggaccccgctc 1020
gcgcgggccc ctgtccttag gttttgtcgc aagggtg 1056

<210> 38
<211> 352
<212> PRT
<213> Herpes Virus

<400> 38
Val Leu Thr Leu Thr Pro Gly Thr Ala Lys Pro Arg Ser Leu Val Glu
1 5 10 15
Trp Leu Asp Arg Gly Trp Glu Ala Leu Ala Gly Gly Asp Arg Pro Asp
20 25 30
Trp Leu Trp Ser Arg Arg Ser Ile Ser Val Val Leu Arg His His Tyr
35 40 45
Gly Thr Lys Gln Arg Phe Val Val Val Ser Tyr Glu Asn Ser Val Ala
50 55 60
Trp Gly Gly Arg Arg Ala Arg Pro Pro Leu Leu Ser Ser Ala Leu Ala
65 70 75 80
Thr Ala Leu Thr Glu Ala Cys Ala Ala Glu Arg Val Val Arg Pro His
85 90 95
Gln Leu Ser Pro Ala Gly Gln Ala Glu Leu Leu Leu Arg Phe Pro Ala
100 105 110
Leu Glu Val Pro Leu Arg His Pro Arg Pro Val Leu Pro Pro Phe Asp
115 120 125
Ile Ala Ala Glu Val Ala Phe Thr Ala Arg Ile His Leu Ala Cys Leu

130	135	140
Arg Ala Leu Gly Gln Ala Ile Arg Ala Ala Leu Gln Gly Gly Pro Arg 145 150 155 160		
Ile Ser Gln Arg Leu Arg Tyr Asp Phe Gly Pro Asp Gln Arg Ala Trp 165 170 175		
Leu Gly Glu Val Thr Arg Arg Phe Pro Ile Leu Leu Glu Asn Leu Met 180 185 190		
Arg Ala Val Glu Gly Thr Ala Pro Asp Ala Phe Phe His Thr Ala Tyr 195 200 205		
Ala Leu Ala Val Leu Ala His Leu Gly Gly Arg Gly Gly Arg Gly Arg 210 215 220		
Arg Val Val Pro Leu Gly Asp Asp Leu Pro Ala Arg Phe Ala Asp Ser 225 230 235 240		
Asp Gly His Tyr Val Phe Asp Tyr Tyr Ser Thr Ser Gly Asp Thr Leu 245 250 255		
Arg Leu Asn Asn Arg Pro Ile Ala Val Ala Met Asp Gly Asp Val Ser 260 265 270		
Lys Arg Glu Gln Ser Lys Cys Arg Phe Met Glu Ala Val Pro Ser Thr 275 280 285		
Ala Pro Arg Arg Val Cys Glu Gln Tyr Leu Pro Gly Glu Ser Tyr Ala 290 295 300		
Tyr Leu Cys Leu Gly Phe Asn Arg Arg Leu Cys Gly Ile Val Val Phe 305 310 315 320		
Pro Gly Gly Phe Ala Phe Thr Ile Asn Ile Ala Ala Tyr Leu Ser Leu 325 330 335		
Ser Asp Pro Val Ala Arg Ala Ala Val Leu Arg Phe Cys Arg Lys Val 340 345 350		

<210> 39
 <211> 2112
 <212> DNA
 <213> Herpes Virus

<400> 39
 atgaacgcgc acttggccaa cgaggtccag acgatctcgg ccacggccccg ggtcggccct 60
 cggtcttttg ttcacgtcat catatccagc gaggcgcctg cggccgcggg aatccctctg 120
 gccgcctga tgcgcggccg ccccgactc gggacggccg caaacttcca ggtcgaaatc 180
 cagactcggg ctcatgccac cggcgactgt acccgtggt gcacggcggt tgccgcctac 240
 gtgcccgcgg atgcggtggg ggagcttctg gccccgctg tgccggcaca ccttggcctc 300
 cttccgcgtg cgtccagcgc cggggggttg ttcgtctccc tgcccggtgt gtgtgacgcg 360
 cagggcgctc atgacccgta cgcgtggcg gcgctgcgcc ttgcgtgggg ctccggggcg 420
 agctgtgccc gcgtgattct gtttagttac gacgagctcg tccccccaa cacgcgtac 480
 gcggccgaca gcacgcgcac catgcgcgtc tgcggcatt tgtgcgcta cgtcgctctg 540
 cttggcgccg ccgccccgcc ggccgcgaag gaggtgcgg ccacactgtc catgggtctg 600

```

ggggaaagcg cgtccccgcg tccgcagccc ttggcccggc cccacgcggg ggcgcccgca 660
gacccgcccc tgcgcggggc gtccgacccc cccatctccc cggaggagca gctgacggcc 720
cccggcggcg acacgaccgc ggcccaggac gtgtccatcg cacaggagaa cgaggagatc 780
ctcgcgttgg ttcagcgggc agtgcaggac gtcacccgcc gccacccggc ccgagcgcg 840
accgggcgtg cggcctgtgg cgttgcatcg gggctacgcc agggcgccct gggtcaccag 900
gccgtcagcg ggggcgccat gggggcggtc gacgcagatg cggtgctggc ggtctggag 960
ccccccggcg ggggcgcgtt tgtggcccca gcgccccacg ggcccggggg cgaggacatc 1020
ctgaacgacg ttctaaccct taccctggt accgcaaagc cgcggtcgct ggtcgagtgg 1080
ttggatcgcg gatgggaagc cctggccggc ggcgaccggc cggactggct gtggagccgt 1140
cgttctatct ccgtggtcct gcgccaccac tacggaacca agcagcgctt cgtcgtcgtc 1200
tcctacgaga actcctggc gtggggcggg cgacgcgccc gccctccgct gctgtcctcg 1260
gcgctggcca cggccctgac cgaggcctgc gccgcagaac gcgtcgtgcg cccccaccag 1320
ctgtctcccg ctgggcaggc ggagctgctg ctacgctttc ccgcgctcga ggtgccctg 1380
cgccacccgc gcccgctcct gccgcccttt gacatcgccg ccgaggtcgc ctttaccgcg 1440
cgcatacatc tggcgtgcct ccgggccctg ggccaggcca tccgggccgc gcttcagggc 1500
ggcccgcgaa tctcacagcg cctgcgctat gactttggcc ccgaccaacg cgcgtggttg 1560
ggggagggtga ccaggcgctt cccattctc ctcgagaacc tgatgcgcgc cgtcgagggg 1620
accgcccccg acgccttttt tcacaccgcg tatgccctgg ccgtcctggc acacctgggg 1680
ggacggggcg gtcggggggc gcgggtcgtc ccgctcggcg acgacctccc ggcccgcttt 1740
gccgactccg acggccatta cgtttttgac tactacagca caagcggaga cacgtgcgg 1800
cttaacaatc gtccaatcgc cgtggcgatg gatggtgacg tcagtaaacy cgagcagagt 1860
aaatgtcgct tcatggaggc cgtccctcc acagccccac gcagggtctg cgagcaatac 1920
ctgcccgggg aaagctacgc ctacctctgc ctggggttta atcgccgcct ctgtggcata 1980
gttgtctttc ccggcggtt tgcgttcacc attaacatcg cggcctacct tagcctctcg 2040
gaccccgctc cgcgggcgcg tgtccttagg ttttgtcgca aggtgtcgtc cgggaacggc 2100
cgtctcgtc ag 2112

```

<210> 40
 <211> 703
 <212> PRT
 <213> Herpes Virus

```

<400> 40
Met Asn Ala His Leu Ala Asn Glu Val Gln Thr Ile Ser Ala Thr Ala
  1              5              10              15

Arg Val Gly Pro Arg Ser Leu Val His Val Ile Ile Ser Ser Glu Cys
      20              25              30

Leu Ala Ala Ala Gly Ile Pro Leu Ala Ala Leu Met Arg Gly Arg Pro
      35              40              45

Gly Leu Gly Thr Ala Ala Asn Phe Gln Val Glu Ile Gln Thr Arg Ala
      50              55              60

His Ala Thr Gly Asp Cys Thr Pro Trp Cys Thr Ala Phe Ala Ala Tyr
      65              70              75              80

Val Pro Ala Asp Ala Val Gly Glu Leu Leu Ala Pro Val Val Pro Ala
      85              90              95

His Pro Gly Leu Leu Pro Arg Ala Ser Ser Ala Gly Gly Leu Phe Val
      100             105             110

Ser Leu Pro Val Val Cys Asp Ala Gln Gly Val Tyr Asp Pro Tyr Ala
      115             120             125

Val Ala Ala Leu Arg Leu Ala Trp Gly Ser Gly Ala Ser Cys Ala Arg
      130             135             140

```


Val Ile Leu Phe Ser Tyr Asp Glu Leu Val Pro Pro Asn Thr Arg Tyr
 145 150 155 160
 Ala Ala Asp Ser Thr Arg Ile Met Arg Val Cys Arg His Leu Cys Arg
 165 170 175
 Tyr Val Ala Leu Leu Gly Ala Ala Ala Pro Pro Ala Ala Lys Glu Ala
 180 185 190
 Ala Ala His Leu Ser Met Gly Leu Gly Glu Ser Ala Ser Pro Arg Pro
 195 200 205
 Gln Pro Leu Ala Arg Pro His Ala Gly Ala Pro Ala Asp Pro Pro Ile
 210 215 220
 Val Gly Ala Ser Asp Pro Pro Ile Ser Pro Glu Glu Gln Leu Thr Ala
 225 230 235 240
 Pro Gly Gly Asp Thr Thr Ala Ala Gln Asp Val Ser Ile Ala Gln Glu
 245 250 255
 Asn Glu Glu Ile Leu Ala Leu Val Gln Arg Ala Val Gln Asp Val Thr
 260 265 270
 Arg Arg His Pro Val Arg Ala Arg Thr Gly Arg Ala Ala Cys Gly Val
 275 280 285
 Ala Ser Gly Leu Arg Gln Gly Ala Leu Val His Gln Ala Val Ser Gly
 290 295 300
 Gly Ala Met Gly Ala Ala Asp Ala Asp Ala Val Leu Ala Gly Leu Glu
 305 310 315 320
 Pro Pro Gly Gly Gly Arg Phe Val Ala Pro Ala Pro His Gly Pro Gly
 325 330 335
 Gly Glu Asp Ile Leu Asn Asp Val Leu Thr Leu Thr Pro Gly Thr Ala
 340 345 350
 Lys Pro Arg Ser Leu Val Glu Trp Leu Asp Arg Gly Trp Glu Ala Leu
 355 360 365
 Ala Gly Gly Asp Arg Pro Asp Trp Leu Trp Ser Arg Arg Ser Ile Ser
 370 375 380
 Val Val Leu Arg His His Tyr Gly Thr Lys Gln Arg Phe Val Val Val
 385 390 395 400
 Ser Tyr Glu Asn Ser Val Ala Trp Gly Gly Arg Arg Ala Arg Pro Pro
 405 410 415
 Leu Leu Ser Ser Ala Leu Ala Thr Ala Leu Thr Glu Ala Cys Ala Ala
 420 425 430
 Glu Arg Val Val Arg Pro His Gln Leu Ser Pro Ala Gly Gln Ala Glu
 435 440 445
 Leu Leu Leu Arg Phe Pro Ala Leu Glu Val Pro Leu Arg His Pro Arg
 450 455 460
 Pro Val Leu Pro Pro Phe Asp Ile Ala Ala Glu Val Ala Phe Thr Ala

tcgctgggtcc ttaacatggt ttactcgatc acggagggaa ccaccatcat ccttacgcta 660
atcccccggc tctttgcgct aagtgeccag gacgggtacg tgaacgctct actgcagatg 720
cagagtgtca cgcgggaggc cgcccagctc attcaccccg aagccccggc cctgatgcag 780
gatggagagc gaaggctgcc gctttacgag gcgctcgtcg cctgggtgac ccacgcgggc 840
caactaggag acaccttggc cctggctccc gtggttcggg tgtgcacctt tgacggcgcg 900
gccgttgtgc ggtccggaga catggccccc gttatacgct at 942

<210> 42
<211> 314
<212> PRT
<213> Herpes Virus

<400> 42
Asp Gly Phe Glu Thr Asp Ile Ala Ile Pro Ser Gly Ile Ser Arg Pro
1 5 10 15
Asp Ala Ala Ala Leu Gln Arg Cys Glu Gly Arg Val Val Phe Leu Pro
20 25 30
Thr Ile Arg Arg Gln Leu Thr Leu Ala Asp Val Ala His Glu Ser Phe
35 40 45
Val Ser Gly Gly Val Ser Pro Asp Thr Leu Gly Leu Leu Leu Ala Tyr
50 55 60
Arg Arg Arg Phe Pro Ala Val Ile Thr Arg Val Leu Pro Thr Arg Ile
65 70 75 80
Val Ala Cys Pro Leu Asp Val Gly Leu Thr His Ala Gly Thr Val Asn
85 90 95
Leu Arg Asn Thr Ser Pro Val Asp Leu Cys Asn Gly Asp Pro Ile Ser
100 105 110
Leu Val Pro Pro Val Phe Glu Gly Gln Ala Thr Asp Val Arg Leu Asp
115 120 125
Ser Leu Asp Leu Thr Leu Arg Phe Pro Val Pro Leu Pro Ser Pro Leu
130 135 140
Ala Arg Glu Ile Val Ala Arg Leu Val Ala Arg Gly Ile Arg Asp Leu
145 150 155 160
Asn Pro Ser Pro Arg Asn Pro Gly Gly Leu Pro Asp Leu Asn Val Leu
165 170 175
Tyr Tyr Asn Gly Ser Arg Leu Ser Leu Leu Ala Asp Val Gln Gln Leu
180 185 190
Gly Pro Val Asn Ala Glu Leu Arg Ser Leu Val Leu Asn Met Val Tyr
195 200 205
Ser Ile Thr Glu Gly Thr Thr Ile Ile Leu Thr Leu Ile Pro Arg Leu
210 215 220
Phe Ala Leu Ser Ala Gln Asp Gly Tyr Val Asn Ala Leu Leu Gln Met
225 230 235 240
Gln Ser Val Thr Arg Glu Ala Ala Gln Leu Ile His Pro Glu Ala Pro
245 250 255

Ala Leu Met Gln Asp Gly Glu Arg Arg Leu Pro Leu Tyr Glu Ala Leu
260 265 270

Val Ala Trp Leu Thr His Ala Gly Gln Leu Gly Asp Thr Leu Ala Leu
275 280 285

Ala Pro Val Val Arg Val Cys Thr Phe Asp Gly Ala Ala Val Val Arg
290 295 300

Ser Gly Asp Met Ala Pro Val Ile Arg Tyr
305 310

<210> 43
<211> 957
<212> DNA
<213> Herpes Virus

<400> 43
atgctggcgg acggctttga aactgacatc gcgataccct cgggcatctc gcgccccgat 60
gcggcggcgc tgcagcgtcg cgaaggcgcg gtgggtattcc tgccgaccat ccgccggcaa 120
ctgacgctgg ccgacgtggc gcacgaatcc ttctgtctccg gaggcgtcag tcccgcacacg 180
ttggggttgt tgcctggcgta ccgaaggcgc ttccccgcgg tcatcaccgc ggtgcttccc 240
acgcgaatcg tcgcctgccc cctggacgtg ggcctcaccc acgccggcac cgtaaaccctt 300
cgcaacacct cccccgtaga tctctgtaac ggggacccca tcagcctcgt cccgcccgtg 360
ttcgagggcc aagcgacgga cgtgcgcctg gattcgctgg acctcacgtt gcggtttccc 420
gttccgcttc catcgcccc ggcgcgcgaa atcgtggcgc ggctcgtggc caggggcatc 480
cgggacctga accccagccc cagaaacccc ggagggtgc cagacctcaa cgtgctgtac 540
tacaacggga gtcgcctctc gctgctggcg gacgtccaac aactcgggtc cgtaaacgcc 600
gagctgcgat cgctggtcct taacatggtt tactcgatca cggaggggaac caccatcatc 660
cttacgctaa tccccggct ctttgcgcta agtgcccagg acgggtacgt gaacgctcta 720
ctgcagatgc agagtgtcac gcgggaggcc gccagctca ttcaccccga agccccggcc 780
ctgatgcagg atggagagcg aaggctgccg ctttacgagg cgctcgtcgc ctggctgacc 840
cacgcgggcc aactaggaga caccttgccc ctggctcccg tggttcgggt gtgcaccttt 900
gacggcgcgg ccgttggtgc gtccggagac atggcccccg ttatacgcta tccctaa 957

<210> 44
<211> 318
<212> PRT
<213> Herpes Virus

<400> 44
Met Leu Ala Asp Gly Phe Glu Thr Asp Ile Ala Ile Pro Ser Gly Ile
1 5 10 15

Ser Arg Pro Asp Ala Ala Ala Leu Gln Arg Cys Glu Gly Arg Val Val
20 25 30

Phe Leu Pro Thr Ile Arg Arg Gln Leu Thr Leu Ala Asp Val Ala His
35 40 45

Glu Ser Phe Val Ser Gly Gly Val Ser Pro Asp Thr Leu Gly Leu Leu
50 55 60

Leu Ala Tyr Arg Arg Arg Phe Pro Ala Val Ile Thr Arg Val Leu Pro
65 70 75 80

Thr Arg Ile Val Ala Cys Pro Leu Asp Val Gly Leu Thr His Ala Gly
85 90 95

Thr Val Asn Leu Arg Asn Thr Ser Pro Val Asp Leu Cys Asn Gly Asp
 100 105 110
 Pro Ile Ser Leu Val Pro Pro Val Phe Glu Gly Gln Ala Thr Asp Val
 115 120 125
 Arg Leu Asp Ser Leu Asp Leu Thr Leu Arg Phe Pro Val Pro Leu Pro
 130 135 140
 Ser Pro Leu Ala Arg Glu Ile Val Ala Arg Leu Val Ala Arg Gly Ile
 145 150 155 160
 Arg Asp Leu Asn Pro Ser Pro Arg Asn Pro Gly Gly Leu Pro Asp Leu
 165 170 175
 Asn Val Leu Tyr Tyr Asn Gly Ser Arg Leu Ser Leu Leu Ala Asp Val
 180 185 190
 Gln Gln Leu Gly Pro Val Asn Ala Glu Leu Arg Ser Leu Val Leu Asn
 195 200 205
 Met Val Tyr Ser Ile Thr Glu Gly Thr Thr Ile Ile Leu Thr Leu Ile
 210 215 220
 Pro Arg Leu Phe Ala Leu Ser Ala Gln Asp Gly Tyr Val Asn Ala Leu
 225 230 235 240
 Leu Gln Met Gln Ser Val Thr Arg Glu Ala Ala Gln Leu Ile His Pro
 245 250 255
 Glu Ala Pro Ala Leu Met Gln Asp Gly Glu Arg Arg Leu Pro Leu Tyr
 260 265 270
 Glu Ala Leu Val Ala Trp Leu Thr His Ala Gly Gln Leu Gly Asp Thr
 275 280 285
 Leu Ala Leu Ala Pro Val Val Arg Val Cys Thr Phe Asp Gly Ala Ala
 290 295 300
 Val Val Arg Ser Gly Asp Met Ala Pro Val Ile Arg Tyr Pro
 305 310 315

<210> 45

<211> 798

<212> DNA

<213> Herpes Virus

<400> 45

cctccgcca acaacaccga ctcgagttcc ctggtgccc gggcccagga ttccgccccg 60
 cccggcccca cgctaaggga gctgtggtgg gtgttttatg ccgcagaccg ggcgctggag 120
 gagccccgc cgcactctgg cctcaccgcg gaggaggtac gtgccgtacg tgggttccgg 180
 gacgaggcgt ggaaactggt tggctccgcg ggggccccgc gggcgtttat cggggccgcg 240
 ttgggcctga gccccctcca aaagctagcc gtttactact atatcatcca ccgagagagg 300
 cgctgtccc ccttccccgc gctagtccgg ctcgtaggcc ggtacacaca ggcaccggc 360
 ctgtacgtcc ctcgccccga cgaccagtc ttggccgatg ccatcaacgg gctgtttcgc 420
 gacgcgctgg cggccggaac cacagccgag cagctcctca tggtcgacct tctcccccca 480
 aaggacgtgc cgggtgggaag cgacgtgcag gccgacagca ccgctctgct gcgctttata 540
 gaatcgcaac gtctcgccgt ccccgggggg gtgatctccc ccgagcacgt cgcgtacctt 600
 ggtgcgttcc tgagcgtgct gtacgtggc cgcgggcgca tgtccgcagc cagcacacc 660

gcgcggctga caggggtgac ctccctgggtg ctagcggtgg gtgacgtgga ccgtctttcc 720
gcgtttgacc gggagcggc gggcgcgcc agccgcacgc gggccgcgg gtacctggat 780
gtgcttctta ccgttcgt 798

<210> 46
<211> 266
<212> PRT
<213> Herpes Virus

<400> 46
Pro Pro Pro Asn Asn Thr Asp Ser Ser Ser Leu Val Pro Gly Ala Gln
1 5 10 15
Asp Ser Ala Pro Pro Gly Pro Thr Leu Arg Glu Leu Trp Trp Val Phe
20 25 30
Tyr Ala Ala Asp Arg Ala Leu Glu Glu Pro Arg Ala Asp Ser Gly Leu
35 40 45
Thr Arg Glu Glu Val Arg Ala Val Arg Gly Phe Arg Glu Gln Ala Trp
50 55 60
Lys Leu Phe Gly Ser Ala Gly Ala Pro Arg Ala Phe Ile Gly Ala Ala
65 70 75 80
Leu Gly Leu Ser Pro Leu Gln Lys Leu Ala Val Tyr Tyr Tyr Ile Ile
85 90 95
His Arg Glu Arg Arg Leu Ser Pro Phe Pro Ala Leu Val Arg Leu Val
100 105 110
Gly Arg Tyr Thr Gln Arg His Gly Leu Tyr Val Pro Arg Pro Asp Asp
115 120 125
Pro Val Leu Ala Asp Ala Ile Asn Gly Leu Phe Arg Asp Ala Leu Ala
130 135 140
Ala Gly Thr Thr Ala Glu Gln Leu Leu Met Phe Asp Leu Leu Pro Pro
145 150 155 160
Lys Asp Val Pro Val Gly Ser Asp Val Gln Ala Asp Ser Thr Ala Leu
165 170 175
Leu Arg Phe Ile Glu Ser Gln Arg Leu Ala Val Pro Gly Gly Val Ile
180 185 190
Ser Pro Glu His Val Ala Tyr Leu Gly Ala Phe Leu Ser Val Leu Tyr
195 200 205
Ala Gly Arg Gly Arg Met Ser Ala Ala Thr His Thr Ala Arg Leu Thr
210 215 220
Gly Val Thr Ser Leu Val Leu Ala Val Gly Asp Val Asp Arg Leu Ser
225 230 235 240
Ala Phe Asp Arg Gly Ala Ala Gly Ala Ala Ser Arg Thr Arg Ala Ala
245 250 255
Gly Tyr Leu Asp Val Leu Leu Thr Val Arg
260 265

<210> 47
 <211> 1608
 <212> DNA
 <213> Herpes Virus

<400> 47
 atggagctta gctacgccac caccatgcac taccgggacg ttgtgtttta cgtcacaacg 60
 gaccgaaacc gggcctactt tgtgtgcggg ggggtgtgtt attccgtggg gcggccgtgt 120
 gcctcgcagc ccggggagat tgccaagttt ggtctggteg ttcgagggac aggccagac 180
 gaccgcgtgg tcgccaacta tgtacgaagc gagctccgac aacgcggcct gcaggacgtg 240
 cgtcccattg gggaggacga ggtgtttctg gacagcgtgt gtcttctaaa cccgaacgtg 300
 agctccgagc tggatgtgat taacacgaac gacgtggaag tgctggacga atgtctggcc 360
 gagtactgca cctcgtcgcg aaccagcccg ggtgtgctaa tatccgggct gcgcgtgcgg 420
 gcgcaggaca gaatcatcga gttgtttgaa caccacacga tagtcaacgt ttctcgcac 480
 tttgtgtata ccccgctccc atacgtgttc gccctggccc aggcgcacct ccccggtc 540
 ccgagctcgc tggaggccct ggtgagcggc ctgtttgacg gcatccccgc cccacgccag 600
 ccacttgacg cccacaaccc gcgcacggat gtggttatca cgggccgccg cgcgccacga 660
 cccatcgccg ggtcgggggc ggggtcgggg ggcgcggggc ccaagcgggc caccgtcagc 720
 gagttcgtgc aagtcaaaca cattgaccgc gtgggccccg ctggcggttc gccggcgct 780
 ccgccaacaa acaccgactc gagttccctg gtgcccgggg ccaggattc cgcgccgcc 840
 ggccccacgc taagggagct gtgggtgggtg ttttatgccg cagaccgggc gctggaggag 900
 ccccgcgccg actctggcct caccgcgcag gaggtacgtg ccgtacgtgg gttccgggag 960
 caggcgtgga aactgtttgg ctccgcgggg gccccgcggg cgtttatcgg ggccgcgtg 1020
 ggcttgagcc cctccaaaa gctagccgtt tactactata tcatccaccg agagaggcgc 1080
 ctgtcccctt tccccgcgt agtccggctc gtaggcgggt acacacagcg ccacggcctg 1140
 tacgtccctc ggcccgacga cccagtcttg gccgatgcca tcaacgggct gtttcgcgac 1200
 gcgtggcgcg ccggaaccac agccgagcag ctctcatgt tcgaccttct cccccaaag 1260
 gacgtgccgg tgggaagcga cgtgcaggcc gacagcaccg ctctgctgcg ctttatagaa 1320
 tcgcaacgtc tcgcccgtcc cgggggggtg atctcccccg agcacgtcgc gtaccttggt 1380
 gcgttcctga gcgtgctgta cgctggccgc gggcgcatgt ccgcagccac gcacaccgcg 1440
 cggtgacag gggtagacct cctggtgcta gcggtgggtg acgtggaccg tctttccgcg 1500
 tttgaccgcg gagcggcggg cgcgccacg cgacgcggg ccgccgggta cctggatgtg 1560
 cttcttaccg ttcgtctcgc tcgtcccaa caccgacagt ctgtgtaa 1608

<210> 48
 <211> 535
 <212> PRT
 <213> Herpes Virus

<400> 48
 Met Glu Leu Ser Tyr Ala Thr Thr Met His Tyr Arg Asp Val Val Phe
 1 5 10 15
 Tyr Val Thr Thr Asp Arg Asn Arg Ala Tyr Phe Val Cys Gly Gly Cys
 20 25 30
 Val Tyr Ser Val Gly Arg Pro Cys Ala Ser Gln Pro Gly Glu Ile Ala
 35 40 45
 Lys Phe Gly Leu Val Val Arg Gly Thr Gly Pro Asp Asp Arg Val Val
 50 55 60
 Ala Asn Tyr Val Arg Ser Glu Leu Arg Gln Arg Gly Leu Gln Asp Val
 65 70 75 80
 Arg Pro Ile Gly Glu Asp Glu Val Phe Leu Asp Ser Val Cys Leu Leu
 85 90 95

Asn Pro Asn Val Ser Ser Glu Leu Asp Val Ile Asn Thr Asn Asp Val
 100 105 110
 Glu Val Leu Asp Glu Cys Leu Ala Glu Tyr Cys Thr Ser Leu Arg Thr
 115 120 125
 Ser Pro Gly Val Leu Ile Ser Gly Leu Arg Val Arg Ala Gln Asp Arg
 130 135 140
 Ile Ile Glu Leu Phe Glu His Pro Thr Ile Val Asn Val Ser Ser His
 145 150 155 160
 Phe Val Tyr Thr Pro Ser Pro Tyr Val Phe Ala Leu Ala Gln Ala His
 165 170 175
 Leu Pro Arg Leu Pro Ser Ser Leu Glu Ala Leu Val Ser Gly Leu Phe
 180 185 190
 Asp Gly Ile Pro Ala Pro Arg Gln Pro Leu Asp Ala His Asn Pro Arg
 195 200 205
 Thr Asp Val Val Ile Thr Gly Arg Arg Ala Pro Arg Pro Ile Ala Gly
 210 215 220
 Ser Gly Ala Gly Ser Gly Gly Ala Gly Ala Lys Arg Ala Thr Val Ser
 225 230 235 240
 Glu Phe Val Gln Val Lys His Ile Asp Arg Val Gly Pro Ala Gly Val
 245 250 255
 Ser Pro Ala Pro Pro Pro Asn Asn Thr Asp Ser Ser Ser Leu Val Pro
 260 265 270
 Gly Ala Gln Asp Ser Ala Pro Pro Gly Pro Thr Leu Arg Glu Leu Trp
 275 280 285
 Trp Val Phe Tyr Ala Ala Asp Arg Ala Leu Glu Glu Pro Arg Ala Asp
 290 295 300
 Ser Gly Leu Thr Arg Glu Glu Val Arg Ala Val Arg Gly Phe Arg Glu
 305 310 315 320
 Gln Ala Trp Lys Leu Phe Gly Ser Ala Gly Ala Pro Arg Ala Phe Ile
 325 330 335
 Gly Ala Ala Leu Gly Leu Ser Pro Leu Gln Lys Leu Ala Val Tyr Tyr
 340 345 350
 Tyr Ile Ile His Arg Glu Arg Arg Leu Ser Pro Phe Pro Ala Leu Val
 355 360 365
 Arg Leu Val Gly Arg Tyr Thr Gln Arg His Gly Leu Tyr Val Pro Arg
 370 375 380
 Pro Asp Asp Pro Val Leu Ala Asp Ala Ile Asn Gly Leu Phe Arg Asp
 385 390 395 400
 Ala Leu Ala Ala Gly Thr Thr Ala Glu Gln Leu Leu Met Phe Asp Leu
 405 410 415
 Leu Pro Pro Lys Asp Val Pro Val Gly Ser Asp Val Gln Ala Asp Ser

Ala Met Gln Ala Ala Glu Leu Pro Val Asp Ile Glu Arg Arg Leu Arg
 50 55 60
 Pro Ile Glu Arg Asn Val His Glu Ile Ala Gly Ala Leu Glu Ala Leu
 65 70 75 80
 Glu Thr Ala Ala Ala Ala Glu Glu Ala Asp Ala Ala Arg Gly Asp
 85 90 95
 Glu Pro Ala Gly Gly Gly Asp Gly Gly Ala Pro Pro Gly Leu Ala Val
 100 105 110
 Ala Glu Met Glu Val Gln Ile Val Arg Asn Asp Pro Pro Leu Arg Tyr
 115 120 125
 Asp Thr Asn Leu Pro Val Asp Leu Leu His Met Val Tyr Ala Gly Arg
 130 135 140
 Gly Ala Thr Gly Ser Ser Gly Val Val Phe Gly Thr Trp Tyr Arg Thr
 145 150 155 160
 Ile Gln Asp Arg Thr Ile Thr Asp Phe Pro Leu Thr Thr Arg Ser Ala
 165 170 175
 Asp Phe Arg Asp Gly Arg Met Ser Lys Thr Phe Met Thr Ala Leu Val
 180 185 190
 Leu Ser Leu Gln Ala Cys Gly Arg Leu Tyr Val Gly Gln Arg His Tyr
 195 200 205
 Ser Ala Phe Glu Cys Ala Val Leu Cys Leu Tyr Leu Leu Tyr Arg Asn
 210 215 220
 Thr His Gly Ala Ala Asp Asp Ser Asp Arg Ala Pro Val Thr Phe Gly
 225 230 235 240
 Asp Leu Leu Gly Arg Leu Pro Arg Tyr Leu Ala Cys Leu Ala Ala Val
 245 250 255
 Ile Gly Thr Glu Gly Gly Arg Pro Gln Tyr Arg Tyr Arg Asp Asp Lys
 260 265 270
 Leu Pro Lys Thr Gln Phe
 275

<210> 51

<211> 1743

<212> DNA

<213> Herpes Virus

<400> 51

atggaccgct actgcccatt tgacgctctg gacgtctggg aacacaggcg cttcatagtc 60
 gccgattccc gaaacttcat ccccccgag ttccccggg acttttggat gtcgcccgtc 120
 ttttaacctcc cccgggagac ggccggcgag caggtggtcg tcctacaggc ccagcgacaca 180
 gcggctgccg ctgccctgga gaacgccgcc atgcaggcgg ccgagctccc cgtcgatatc 240
 gagcgccggt tacgcccgat cgaacggaac gtgcacgaga tcgcaggcgc cctggaggcg 300
 ctggagacgg cggcggccgc cgccgaagag gcggatgccg cgcgcgggga tgagccggcg 360
 ggtggggggc acgggggggc gccccgggt ctggccgtcg cggagatgga ggtccagatc 420
 gtgcgcaacg acccgccgct acgatacgac accaacctcc ccgtggatct gctacacatg 480
 gtgtacgcgg gcccggggc gaccggctcg tcgggggtgg tggtcgggac ctggtaccgc 540

```

actatccagg accgcacccat cacggacttt cccctgacca cccgcagtgc cgacttttcgg 600
gacggcccgta tgtccaagac cttcatgacg gcgctgggtac tgtccctgca ggcggtgcggc 660
cggtctgtatg tgggccagcg ccactattcc gccttcgagt gcgccgtgtt gtgtctctac 720
ctgctgtacc gaaacacgca cggggccgcc gacgatagcg accgcgctcc gggtcacgttc 780
ggggatctgc tgggccggct gccccgctac ctggcggtgcc tggccgcggt gatcggggacc 840
gagggcggcc ggccacagta ccgctaccgc gacgacaagc tccccaagac gcagttcgcg 900
gccggcgggg gccgctacga acacggagcg ctggcgctcg acatcgtgat cgccacgctg 960
atgcaccacg ggggtgctccc ggcgggcccc ggggacgtcc cccgggacgc gagtaccac 1020
gttaaccccc acggcggtggc gcaccacgac gacataaacc gcgccgcgc gcggttcctc 1080
agccggggcc acaacctatt cctgtgggag gaccagactc tgctgcgggc aaccgcgaac 1140
accataacgg ccctgggcgt tatccagcgg ctctctcgca acggcaacgt gtacgcggac 1200
cgctcaaca accgcctgca gctgggcatg ctgatccccg gagccgtccc ttcggaggcc 1260
atcgcccgtg gggcctccgg gtccgactcg ggggccatca agagcggaga caacaatctg 1320
gagggcgtat gtgccaatta cgtgcttcgg ctgtaccggg ccgaccgggc ggtcgcgctg 1380
accagctgt ttcccggcct ggccgcccctg tgtcttgacg cccaggcggg gcggccggtc 1440
gggtcgacgc ggcggtggg ggatatgtca tcggggggccc gccaggcggc gctgggtgcg 1500
ctcaccgccc tggaaactcat caaccgcacc cgcacaaacc ccaccctgt gggggaggtt 1560
atccacgccc acgacgccct ggcgatcaa tacgaacagg ggcttggcct gctggcgag 1620
caggcacgca ttggcttggg ctccaacacc aagcgtttct ccgcgttcaa cgtttagcagc 1680
gactacgaca tggtgtactt tttatgtctg gggttcattc cacagtacct gtcggcggtt 1740
tag 1743

```

```

<210> 52
<211> 580
<212> PRT
<213> Herpes Virus

```

```

<400> 52
Met Asp Pro Tyr Cys Pro Phe Asp Ala Leu Asp Val Trp Glu His Arg
  1             5             10             15

Arg Phe Ile Val Ala Asp Ser Arg Asn Phe Ile Thr Pro Glu Phe Pro
      20             25             30

Arg Asp Phe Trp Met Ser Pro Val Phe Asn Leu Pro Arg Glu Thr Ala
      35             40             45

Ala Glu Gln Val Val Val Leu Gln Ala Gln Arg Thr Ala Ala Ala Ala
      50             55             60

Ala Leu Glu Asn Ala Ala Met Gln Ala Ala Glu Leu Pro Val Asp Ile
      65             70             75             80

Glu Arg Arg Leu Arg Pro Ile Glu Arg Asn Val His Glu Ile Ala Gly
      85             90             95

Ala Leu Glu Ala Leu Glu Thr Ala Ala Ala Ala Ala Glu Glu Ala Asp
      100            105            110

Ala Ala Arg Gly Asp Glu Pro Ala Gly Gly Gly Asp Gly Gly Ala Pro
      115            120            125

Pro Gly Leu Ala Val Ala Glu Met Glu Val Gln Ile Val Arg Asn Asp
      130            135            140

Pro Pro Leu Arg Tyr Asp Thr Asn Leu Pro Val Asp Leu Leu His Met
      145            150            155            160

Val Tyr Ala Gly Arg Gly Ala Thr Gly Ser Ser Gly Val Val Phe Gly
      165            170            175

```

Thr Trp Tyr Arg Thr Ile Gln Asp Arg Thr Ile Thr Asp Phe Pro Leu
 180 185 190
 Thr Thr Arg Ser Ala Asp Phe Arg Asp Gly Arg Met Ser Lys Thr Phe
 195 200 205
 Met Thr Ala Leu Val Leu Ser Leu Gln Ala Cys Gly Arg Leu Tyr Val
 210 215 220
 Gly Gln Arg His Tyr Ser Ala Phe Glu Cys Ala Val Leu Cys Leu Tyr
 225 230 235 240
 Leu Leu Tyr Arg Asn Thr His Gly Ala Ala Asp Asp Ser Asp Arg Ala
 245 250 255
 Pro Val Thr Phe Gly Asp Leu Leu Gly Arg Leu Pro Arg Tyr Leu Ala
 260 265 270
 Cys Leu Ala Ala Val Ile Gly Thr Glu Gly Gly Arg Pro Gln Tyr Arg
 275 280 285
 Tyr Arg Asp Asp Lys Leu Pro Lys Thr Gln Phe Ala Ala Gly Gly Gly
 290 295 300
 Arg Tyr Glu His Gly Ala Leu Ala Ser His Ile Val Ile Ala Thr Leu
 305 310 315 320
 Met His His Gly Val Leu Pro Ala Ala Pro Gly Asp Val Pro Arg Asp
 325 330 335
 Ala Ser Thr His Val Asn Pro Asp Gly Val Ala His His Asp Asp Ile
 340 345 350
 Asn Arg Ala Ala Ala Phe Leu Ser Arg Gly His Asn Leu Phe Leu
 355 360 365
 Trp Glu Asp Gln Thr Leu Leu Arg Ala Thr Ala Asn Thr Ile Thr Ala
 370 375 380
 Leu Gly Val Ile Gln Arg Leu Leu Ala Asn Gly Asn Val Tyr Ala Asp
 385 390 395 400
 Arg Leu Asn Asn Arg Leu Gln Leu Gly Met Leu Ile Pro Gly Ala Val
 405 410 415
 Pro Ser Glu Ala Ile Ala Arg Gly Ala Ser Gly Ser Asp Ser Gly Ala
 420 425 430
 Ile Lys Ser Gly Asp Asn Asn Leu Glu Ala Leu Cys Ala Asn Tyr Val
 435 440 445
 Leu Pro Leu Tyr Arg Ala Asp Pro Ala Val Glu Leu Thr Gln Leu Phe
 450 455 460
 Pro Gly Leu Ala Ala Leu Cys Leu Asp Ala Gln Ala Gly Arg Pro Val
 465 470 475 480
 Gly Ser Thr Arg Arg Val Val Asp Met Ser Ser Gly Ala Arg Gln Ala
 485 490 495

Ala Leu Val Arg Leu Thr Ala Leu Glu Leu Ile Asn Arg Thr Arg Thr
500 505 510

Asn Pro Thr Pro Val Gly Glu Val Ile His Ala His Asp Ala Leu Ala
515 520 525

Ile Gln Tyr Glu Gln Gly Leu Gly Leu Leu Ala Gln Gln Ala Arg Ile
530 535 540

Gly Leu Gly Ser Asn Thr Lys Arg Phe Ser Ala Phe Asn Val Ser Ser
545 550 555 560

Asp Tyr Asp Met Leu Tyr Phe Leu Cys Leu Gly Phe Ile Pro Gln Tyr
565 570 575

Leu Ser Ala Val
580

<210> 53
<211> 683
<212> DNA
<213> Herpes Virus

<400> 53
gtgtaccggt acgacgagtt tgtggtggcg actggcgact ttgtgtacat gtccccgttt 60
tacggctacc gggaggggtc gcacaccgaa cacaccagct acgccgccga ccgcttcaag 120
caggtcgacg gcttctacgc gcgcgacctc accaccaagg ccggggccac ggcgccgacc 180
acccggaacc tgetcacgac ccccaagttc accgtggcct gggactgggt gccaaagcgc 240
ccgtcgggtc gcaccatgac caagtggcag gaggtggacg agatgctgcg ctccgagtac 300
ggcggtcctc tccgattctc ttccgacgcc atatccacca ccttcaccac caacctgacc 360
gagtaccgcg tctcgcgcgt ggacctgggg gactgcatcg gcaaggacgc ccgcgacgcc 420
atggaccgca tcttcgcccg caggtacaac gcgacgcaca tcaaggtggg ccagccgcag 480
tactacctgg ccaatggggg ctttctgacg gcgtaccagc cccttctcag caacacgctc 540
gcggagctgt acgtgcggga acacctccgc gagcagagcc gcaagcccc aaacccccacg 600
ccccgccgcg ccggggccag cgccaacgcg tccgtggagc gcatcaagac cacctcctcc 660
atcgagttcg ccaggctgca gtt 683

<210> 54
<211> 227
<212> PRT
<213> Herpes Virus

<400> 54
Val Tyr Pro Tyr Asp Glu Phe Val Leu Ala Thr Gly Asp Phe Val Tyr
1 5 10 15

Met Ser Pro Phe Tyr Gly Tyr Arg Glu Gly Ser His Thr Glu His Thr
20 25 30

Ser Tyr Ala Ala Asp Arg Phe Lys Gln Val Asp Gly Phe Tyr Ala Arg
35 40 45

Asp Leu Thr Thr Lys Ala Arg Ala Thr Ala Pro Thr Thr Arg Asn Leu
50 55 60

Leu Thr Thr Pro Lys Phe Thr Val Ala Trp Asp Trp Val Pro Lys Arg
65 70 75 80

Pro Ser Val Cys Thr Met Thr Lys Trp Gln Glu Val Asp Glu Met Leu

	85		90		95
Arg Ser Glu Tyr Gly Gly Ser Phe Arg Phe Ser Ser Asp Ala Ile Ser					
	100		105		110
Thr Thr Phe Thr Thr Asn Leu Thr Glu Tyr Pro Leu Ser Arg Val Asp					
	115		120		125
Leu Gly Asp Cys Ile Gly Lys Asp Ala Arg Asp Ala Met Asp Arg Ile					
	130		135		140
Phe Ala Arg Arg Tyr Asn Ala Thr His Ile Lys Val Gly Gln Pro Gln					
	145		150		155
Tyr Tyr Leu Ala Asn Gly Gly Phe Leu Ile Ala Tyr Gln Pro Leu Leu					
		165	170		175
Ser Asn Thr Leu Ala Glu Leu Tyr Val Arg Glu His Leu Arg Glu Gln					
	180		185		190
Ser Arg Lys Pro Pro Asn Pro Thr Pro Pro Pro Pro Gly Ala Ser Ala					
	195		200		205
Asn Ala Ser Val Glu Arg Ile Lys Thr Thr Ser Ser Ile Glu Phe Ala					
	210		215		220
Arg Leu Gln					
225					

<210> 55
 <211> 2715
 <212> DNA
 <213> Herpes Virus

<400> 55
 atgcgccagg gcgccccgc gcggggggcgc cgggtggttcg tcgtatgggc gctcttgggg 60
 ttgacgctgg gggtcctggt ggcgtcggcg gctccgagtt cccccggcac gcctggggtc 120
 gcggcccgga cccaggcggc gaacgggggc cctgccactc cggcgccgcc cgccccctggc 180
 gcccccccaa cggggggacc gaaaccgaag aagaacagaa aaccgaaacc cccaaagccg 240
 ccgcgccccg ccggcgacaa cgcgaccgtc gccgcgggcc acgccaccct gcgcgagcac 300
 ctgcggggaca tcaaggcgga gaacaccgat gcaaaacttt acgtgtgccc accccccacg 360
 ggcgccacgg tgggtgcagt cgagcagccg cgccgctgcc cgaccgggcc cgagggtcag 420
 aactacacgg agggcatcgc ggtggtcttc aaggagaaca tcgccccgta caagttcaag 480
 gccaccatgt actacaaaga cgtcaccgtt tcgcaggtgt ggttcggcca ccgctactcc 540
 cagtttatgg ggatctttga ggaccgcgc cccgtcccct tcgaggaggt gatcgacaag 600
 atcaacgcca agggggtctg tcgggtccacg gccaaagtacg tcgcgaacaa cctggagacc 660
 accgcgtttc accgggacga ccacgagacc gacatggagc tgaaaccggc caacgccgcg 720
 accgcacga gccggggctg gcacaccacc gacctcaagt acaaccctc gcgggtggag 780
 gcgttccacc ggtacgggac gacggtaaac tgcacgtcg aggaggtgga cgcgcgctcg 840
 gtgtaccctg acgacgagtt tgtgttggcg actggcgact ttgtgtacat gtccccgttt 900
 tacgggtacc gggaggggtc gcacaccgaa cacaccagct acgccgccga ccgcttcaag 960
 caggctcgacg gcttctacgc gcgcgacctc accaccaagg cccggggccac ggcgccgacc 1020
 acccggaacc tgctcacgac ccccaagttc accgtggcct gggactgggt gccaaagcgc 1080
 ccgtcggtct gcaccatgac caagtggcag gaggtggacg agatgctgcg ctccgagtac 1140
 ggcggtctct tccgattctc ttccgacgcc atatccacca ccttcaccac caacctgacc 1200
 gagtaccgcg tctcgcgctg ggacctgggg gactgcacgc gcaaggacgc ccgcgacgcc 1260
 atggaccgga tcttcgccg caggtacaac gcgacgcaca tcaagggtgg ccagccgcag 1320
 tactacctgg ccaatggggg ctttctgac gcgtaccagc cccttctcag caacacgctc 1380
 gcggagctgt acgtgcggga acacctccgc gagcagagcc gcaagcccc aaacccccacg 1440
 cccccgccgc ccggggccag cgccaacgcg tccgtggagc gcacaaagac cacctcctcc 1500

```

atcgagttcg ccaggctgca gtttacgtac aaccacatac agcgccatgt caacgatatg 1560
ttggggccgcg ttgccatcgc gtggtgcgag ctgcagaatc acgagctgac cctgtggaac 1620
gaggcccgca agctgaacct caacgccatc gcctcggcca ccgtgggccc gcgggtgagc 1680
gcgcggatgc tcggcgacgt gatggccgctc tccacgtgcg tgccgggtcg cgcggaacaac 1740
gtgatcgtcc aaaactcgat gcgcatcagc tcgcggcccg gggcctgcta cagccgcccc 1800
ctggtcagct ttcggtacga agaccagggc ccgttggtcg aggggcagct gggggagAAC 1860
aacgagctgc ggctgacgcg cgatgcgacg gagccgtgca ccgtgggaca ccggcgctac 1920
ttcaccttcg gtgggggcta cgtgtacttc gaggagtacg cgtactccca ccagctgagc 1980
cgcgccgaca tcaccaccgt cagcaccttc atcgacctca acatcaccat gctggaggat 2040
cacgagtttg tccccctgga ggtgtacacc cgccacgaga tcaaggacag cggcctgctg 2100
gactacacgg aggtccagcg ccgcaaccag ctgcacgacc tgcgcttcgc cgacatcgac 2160
acggtcatcc acgcccagcg caacgccgcc atgtttgcgg gcctgggccc gttcttcgag 2220
gggatgggcg acctggggcg cgcggtcggc aaggtggtga tgggcatcgt gggcggcgtg 2280
gtatcgggcg tgctggggcg gtctctcttc atgtccaacc cctttggggc gctggccgtg 2340
ggtctgttgg tcctggccgg cctggcgggc gccttcttcg cctttcgcta cgtcatgcgg 2400
ctgcagagca accccatgaa ggccctgtac ccgctaacca ccaaggagct caagaacccc 2460
accaacccgg acgcgtccgg ggagggcgag gagggcgcg actttgacga ggccaagcta 2520
gccgaggccc gggagatgat acggtacatg gccctggtgt ctgccatgga gcgcacggaa 2580
cacaaggcca agaagaaggg cagagcgcg ctgctcagcg ccaaggtcac cgacatggtc 2640
atgcgcaagc gccgcaaac caactacacc caagttccca acaaagacgg tgacgccgac 2700
gaggacgacc tgtga 2715

```

<210> 56
 <211> 904
 <212> PRT
 <213> Herpes Virus

```

<400> 56
Met Arg Gln Gly Ala Pro Ala Arg Gly Cys Arg Trp Phe Val Val Trp
  1           5           10           15

Ala Leu Leu Gly Leu Thr Leu Gly Val Leu Val Ala Ser Ala Ala Pro
  20           25           30

Ser Ser Pro Gly Thr Pro Gly Val Ala Ala Ala Thr Gln Ala Ala Asn
  35           40           45

Gly Gly Pro Ala Thr Pro Ala Pro Pro Ala Leu Gly Ala Ala Pro Thr
  50           55           60

Gly Asp Pro Lys Pro Lys Lys Asn Lys Lys Pro Lys Asn Pro Thr Pro
  65           70           75           80

Pro Arg Pro Ala Gly Asp Asn Ala Thr Val Ala Ala Gly His Ala Thr
  85           90           95

Leu Arg Glu His Leu Arg Asp Ile Lys Ala Glu Asn Thr Asp Ala Asn
 100           105           110

Phe Tyr Val Cys Pro Pro Pro Thr Gly Ala Thr Val Val Gln Phe Glu
 115           120           125

Gln Pro Arg Arg Cys Pro Thr Arg Pro Glu Gly Gln Asn Tyr Thr Glu
 130           135           140

Gly Ile Ala Val Val Phe Lys Glu Asn Ile Ala Pro Tyr Lys Phe Lys
 145           150           155           160

Ala Thr Met Tyr Tyr Lys Asp Val Thr Val Ser Gln Val Trp Phe Gly
 165           170           175

```

His Arg Tyr Ser Gln Phe Met Gly Ile Phe Glu Asp Arg Ala Pro Val
 180 185 190
 Pro Phe Glu Glu Val Ile Asp Lys Ile Asn Ala Lys Gly Val Cys Arg
 195 200 205
 Ser Thr Ala Lys Tyr Val Arg Asn Asn Leu Glu Thr Thr Ala Phe His
 210 215 220
 Arg Asp Asp His Glu Thr Asp Met Glu Leu Lys Pro Ala Asn Ala Ala
 225 230 235 240
 Thr Arg Thr Ser Arg Gly Trp His Thr Thr Asp Leu Lys Tyr Asn Pro
 245 250 255
 Ser Arg Val Glu Ala Phe His Arg Tyr Gly Thr Thr Val Asn Cys Ile
 260 265 270
 Val Glu Glu Val Asp Ala Arg Ser Val Tyr Pro Tyr Asp Glu Phe Val
 275 280 285
 Leu Ala Thr Gly Asp Phe Val Tyr Met Ser Pro Phe Tyr Gly Tyr Arg
 290 295 300
 Glu Gly Ser His Thr Glu His Thr Ser Tyr Ala Ala Asp Arg Phe Lys
 305 310 315 320
 Gln Val Asp Gly Phe Tyr Ala Arg Asp Leu Thr Thr Lys Ala Arg Ala
 325 330 335
 Thr Ala Pro Thr Thr Arg Asn Leu Leu Thr Thr Pro Lys Phe Thr Val
 340 345 350
 Ala Trp Asp Trp Val Pro Lys Arg Pro Ser Val Cys Thr Met Thr Lys
 355 360 365
 Trp Gln Glu Val Asp Glu Met Leu Arg Ser Glu Tyr Gly Gly Ser Phe
 370 375 380
 Arg Phe Ser Ser Asp Ala Ile Ser Thr Thr Phe Thr Thr Asn Leu Thr
 385 390 395 400
 Glu Tyr Pro Leu Ser Arg Val Asp Leu Gly Asp Cys Ile Gly Lys Asp
 405 410 415
 Ala Arg Asp Ala Met Asp Arg Ile Phe Ala Arg Arg Tyr Asn Ala Thr
 420 425 430
 His Ile Lys Val Gly Gln Pro Gln Tyr Tyr Leu Ala Asn Gly Gly Phe
 435 440 445
 Leu Ile Ala Tyr Gln Pro Leu Leu Ser Asn Thr Leu Ala Glu Leu Tyr
 450 455 460
 Val Arg Glu His Leu Arg Glu Gln Ser Arg Lys Pro Pro Asn Pro Thr
 465 470 475 480
 Pro Pro Pro Pro Gly Ala Ser Ala Asn Ala Ser Val Glu Arg Ile Lys
 485 490 495

Thr Thr Ser Ser Ile Glu Phe Ala Arg Leu Gln Phe Thr Tyr Asn His
 500 505 510
 Ile Gln Arg His Val Asn Asp Met Leu Gly Arg Val Ala Ile Ala Trp
 515 520 525
 Cys Glu Leu Gln Asn His Glu Leu Thr Leu Trp Asn Glu Ala Arg Lys
 530 535 540
 Leu Asn Pro Asn Ala Ile Ala Ser Ala Thr Val Gly Arg Arg Val Ser
 545 550 555 560
 Ala Arg Met Leu Gly Asp Val Met Ala Val Ser Thr Cys Val Pro Val
 565 570 575
 Ala Ala Asp Asn Val Ile Val Gln Asn Ser Met Arg Ile Ser Ser Arg
 580 585 590
 Pro Gly Ala Cys Tyr Ser Arg Pro Leu Val Ser Phe Arg Tyr Glu Asp
 595 600 605
 Gln Gly Pro Leu Val Glu Gly Gln Leu Gly Glu Asn Asn Glu Leu Arg
 610 615 620
 Leu Thr Arg Asp Ala Ile Glu Pro Cys Thr Val Gly His Arg Arg Tyr
 625 630 635 640
 Phe Thr Phe Gly Gly Gly Tyr Val Tyr Phe Glu Glu Ser Ala Tyr Ser
 645 650 655
 His Gln Leu Ser Arg Ala Asp Ile Thr Thr Val Ser Thr Phe Ile Asp
 660 665 670
 Leu Asn Ile Thr Met Leu Glu Asp His Glu Phe Val Pro Leu Glu Val
 675 680 685
 Tyr Thr Arg His Glu Ile Lys Asp Ser Gly Leu Leu Asp Tyr Thr Glu
 690 695 700
 Val Gln Arg Arg Asn Gln Leu His Asp Leu Arg Phe Ala Asp Ile Asp
 705 710 715 720
 Thr Val Ile His Ala Asp Ala Asn Ala Ala Met Phe Ala Gly Leu Gly
 725 730 735
 Ala Phe Phe Glu Gly Met Gly Asp Leu Gly Arg Ala Val Gly Lys Val
 740 745 750
 Val Met Gly Ile Val Gly Gly Val Val Ser Ala Val Ser Gly Val Ser
 755 760 765
 Ser Phe Met Ser Asn Pro Phe Gly Ala Leu Ala Val Gly Leu Leu Val
 770 775 780
 Leu Ala Gly Leu Ala Ala Ala Phe Phe Ala Phe Arg Tyr Val Met Arg
 785 790 795 800
 Leu Gln Ser Asn Pro Met Lys Ala Leu Tyr Pro Leu Thr Thr Lys Glu
 805 810 815
 Leu Lys Asn Pro Thr Asn Pro Asp Ala Ser Gly Glu Gly Glu Glu Gly

820	825	830
Gly Asp Phe Asp Glu Ala Lys Leu Ala Glu Ala Arg Glu Met Ile Arg		
835	840	845
Tyr Met Ala Leu Val Ser Ala Met Glu Arg Thr Glu His Lys Ala Lys		
850	855	860
Lys Lys Gly Thr Ser Ala Leu Leu Ser Ala Lys Val Thr Asp Met Val		
865	870	880
Met Arg Lys Arg Arg Asn Thr Asn Tyr Thr Gln Val Pro Asn Lys Asp		
885	890	895
Gly Asp Ala Asp Glu Asp Asp Leu		
900		

<210> 57
 <211> 1814
 <212> DNA
 <213> Herpes Virus

<400> 57

ctgctagagt	acgcgtggcg	cgagggcgag	cggtcctctg	gcagcctgga	gacgttcgcg	60
accgcgggag	acgtcgcggc	gtttttcacg	gagaccatgg	gcctggcccc	accctgtccg	120
tatcaccaac	gggtcaggct	ggatacgtat	ggcgggaccg	tccatatgga	gctgtgtttc	180
ctgcacgacg	tcgagaactt	tctaaagcag	ctaaactact	gccacctcat	cacccctcgc	240
cgcggcgcca	cgcgcgcgct	ggagcgcgtt	cgaggagtta	tggtgggggc	ggtgggggtc	300
ggccttatcg	ttcccccgga	gcttagcgac	ccgtcccacc	cctgcgcggt	ctgtttcgag	360
gaactgtgtg	tgacggcgaa	ccagggggcg	acgatcgccc	gcgcctggc	ggaccgtatc	420
tgtaaccacg	tcacccagca	ggcgcagggt	cggtctggag	ccaacgagct	gcggcggtac	480
ctgccccacg	cgcgcgggct	gtcggacgcc	gaccgcgcgc	gggcgctctc	ctgtgtggac	540
catcgctcgg	cccggaccgc	ggggggcgag	gggcagcccc	accctgcgcc	cgagaacgac	600
tcggtccgca	aggaggccga	cgccctgctg	gaggcgacg	acgtgtttca	ggccaccacg	660
cccgccctgt	acgccatcag	cgaattgcga	ttctggctcg	cgccggcgca	ccgcgcgggc	720
cagaccacca	tggacgcgtt	tgccagcaac	ctgaccgcgc	tggcgcgggc	cgagttgcag	780
caggagaccg	ccgcggtggc	cgtggaactg	gcgctgttcc	ggcggcgggc	ggagcatttc	840
gatcgcgcgt	tcgggagcca	cctggcgggc	ctggatatgg	tggacgccct	aataatcggc	900
ggtcaggcca	cgtcaccgca	cgatcagatc	gaggcgctca	tccgcgcgtg	ctacgaccac	960
cacctgacga	cgcgcgtctt	gcggcgccct	gtcagccccg	aacagtgcga	cgaggaggcg	1020
ctgcgtcgcg	tgctggcgcg	catggggggc	ggggggcgcg	cggacgcgcc	caaggggggc	1080
gcggggcccc	acgacgacgg	ggaccgtgtc	gccgtagagg	aaggggcacg	ggggttgagg	1140
gctcccgggg	gcggggggcg	ggacgaagac	cgctcgccgc	ggcccggggg	gcagggggccc	1200
gagacgtggg	gggacatcgc	cacgcaagcg	gccgcggacg	tgccgggagc	acggcgggct	1260
tacgcggacc	gcctgacgaa	gcggctcgtg	gccagcctgg	ggcgctgcgt	ccgcgagcag	1320
cgcgggggag	tcgagaagat	gctgcgggtc	agcgtccacg	gcgaggtgct	gcccgcgacg	1380
ttcgccgcgg	tcgccaacgg	ctttgcggcg	cgcgcgcgct	tctgcgccct	gacggcgggc	1440
gcgggcacgg	tcctcgacaa	ccgctcggcg	ccgggcgtgt	tcgacgcgca	ccggttcatg	1500
cgagcgtctc	tcctgcgaca	ccaggtggac	ccggccctgc	tccccagcat	cacccatcgc	1560
ttcttcgagc	tcgtcaacgg	gcccctcttt	gatcactcca	cccacagctt	cgcccagccc	1620
cccaacaccg	cgctgtatta	cagcgtcgag	aacgtggggc	tcctgccgca	cctgaaggag	1680
gagctcgccc	ggttcatcat	ggggggcggg	ggctcgggtg	ctgattgggc	cgtcagcgaa	1740
tttcagaggt	tttactgttt	tgacggcatt	tccggaataa	cgcccactca	gcgcgcgcgc	1800
tggcgatata	ttcg					1814

<210> 58
 <211> 604
 <212> PRT
 <213> Herpes Virus

<400> 58
 Leu Leu Glu Tyr Ala Trp Arg Glu Gly Glu Arg Leu Leu Gly Ser Leu
 1 5 10 15
 Glu Thr Phe Ala Thr Ala Gly Asp Val Ala Ala Phe Phe Thr Glu Thr
 20 25 30
 Met Gly Leu Ala Arg Pro Cys Pro Tyr His Gln Arg Val Arg Leu Asp
 35 40 45
 Thr Tyr Gly Gly Thr Val His Met Glu Leu Cys Phe Leu His Asp Val
 50 55 60
 Glu Asn Phe Leu Lys Gln Leu Asn Tyr Cys His Leu Ile Thr Pro Ser
 65 70 75 80
 Arg Gly Ala Thr Ala Ala Leu Glu Arg Val Arg Glu Phe Met Val Gly
 85 90 95
 Ala Val Gly Ser Gly Leu Ile Val Pro Pro Glu Leu Ser Asp Pro Ser
 100 105 110
 His Pro Cys Ala Val Cys Phe Glu Glu Leu Cys Val Thr Ala Asn Gln
 115 120 125
 Gly Ala Thr Ile Ala Arg Arg Leu Ala Asp Arg Ile Cys Asn His Val
 130 135 140
 Thr Gln Gln Ala Gln Val Arg Leu Asp Ala Asn Glu Leu Arg Arg Tyr
 145 150 155 160
 Leu Pro His Ala Ala Gly Leu Ser Asp Ala Asp Arg Ala Arg Ala Leu
 165 170 175
 Ser Val Leu Asp His Ala Leu Ala Arg Thr Ala Gly Gly Asp Gly Gln
 180 185 190
 Pro His Pro Ser Pro Glu Asn Asp Ser Val Arg Lys Glu Ala Asp Ala
 195 200 205
 Leu Leu Glu Ala His Asp Val Phe Gln Ala Thr Thr Pro Gly Leu Tyr
 210 215 220
 Ala Ile Ser Glu Leu Arg Phe Trp Leu Ala Ser Gly Asp Arg Ala Gly
 225 230 235 240
 Gln Thr Thr Met Asp Ala Phe Ala Ser Asn Leu Thr Ala Leu Ala Arg
 245 250 255
 Arg Glu Leu Gln Gln Glu Thr Ala Ala Val Ala Val Glu Leu Ala Leu
 260 265 270
 Phe Gly Arg Arg Ala Glu His Phe Asp Arg Ala Phe Gly Ser His Leu
 275 280 285
 Ala Ala Leu Asp Met Val Asp Ala Leu Ile Ile Gly Gly Gln Ala Thr
 290 295 300
 Ser Pro Asp Asp Gln Ile Glu Ala Leu Ile Arg Ala Cys Tyr Asp His
 305 310 315 320

His Leu Thr Thr Pro Leu Leu Arg Arg Leu Val Ser Pro Glu Gln Cys
 325 330 335
 Asp Glu Glu Ala Leu Arg Arg Val Leu Ala Arg Met Gly Ala Gly Gly
 340 345 350
 Ala Ala Asp Ala Pro Lys Gly Gly Ala Gly Pro Asp Asp Asp Gly Asp
 355 360 365
 Arg Val Ala Val Glu Glu Gly Ala Arg Gly Leu Gly Ala Pro Gly Gly
 370 375 380
 Gly Gly Glu Asp Glu Asp Arg Arg Arg Gly Pro Gly Gly Gln Gly Pro
 385 390 395 400
 Glu Thr Trp Gly Asp Ile Ala Thr Gln Ala Ala Ala Asp Val Arg Glu
 405 410 415
 Arg Arg Arg Leu Tyr Ala Asp Arg Leu Thr Lys Arg Ser Leu Ala Ser
 420 425 430
 Leu Gly Arg Cys Val Arg Glu Gln Arg Gly Glu Leu Glu Lys Met Leu
 435 440 445
 Arg Val Ser Val His Gly Glu Val Leu Pro Ala Thr Phe Ala Ala Val
 450 455 460
 Ala Asn Gly Phe Ala Ala Arg Ala Arg Phe Cys Ala Leu Thr Ala Gly
 465 470 475 480
 Ala Gly Thr Val Ile Asp Asn Arg Ser Ala Pro Gly Val Phe Asp Ala
 485 490 495
 His Arg Phe Met Arg Ala Ser Leu Leu Arg His Gln Val Asp Pro Ala
 500 505 510
 Leu Leu Pro Ser Ile Thr His Arg Phe Phe Glu Leu Val Asn Gly Pro
 515 520 525
 Leu Phe Asp His Ser Thr His Ser Phe Ala Gln Pro Pro Asn Thr Ala
 530 535 540
 Leu Tyr Tyr Ser Val Glu Asn Val Gly Leu Leu Pro His Leu Lys Glu
 545 550 555 560
 Glu Leu Ala Arg Phe Ile Met Gly Ala Gly Gly Ser Gly Ala Asp Trp
 565 570 575
 Ala Val Ser Glu Phe Gln Arg Phe Tyr Cys Phe Asp Gly Ile Ser Gly
 580 585 590
 Ile Thr Pro Thr Gln Arg Ala Ala Trp Arg Tyr Ile
 595 600

<210> 59
 <211> 1068
 <212> DNA
 <213> Herpes Virus

```

<400> 59
tatgtgtttc agatagagct gctccggcgg tgcgaccccc acatcggacg ggggaagctc 60
ccccaaactga agctgaacgc gcttcagggtg cgggcgctgc ggcgtcgtct gaggccgggc 120
ctggagggcc aggcgggggc ctttctcacc ccgctgtcgg tcaccctgga gttgtgtgta 180
gagtagcgct ggcgcgaggg cgagcggttc ctgggcagcc tggagacgtt cgcgaccgcg 240
ggagacgtcg cggcggtttt cacggagacc atgggccttg cccgaccctg tccgtatcac 300
caacgggtca ggctggatac gtatggcggg accgtccata tggagctgtg tttcctgcac 360
gacgtcgaga actttctaaa gcagctaaac tactgccacc tcatcaccct ctcgcgcggc 420
gccaccgcgg cgctggagcg cgttcgggag tttatgggtg gggcggtggg gtcgggcctt 480
atcgtcccc cgagcttag cgaccgtcc caccctgcg cggctctgtt cgaggaactg 540
tgtgtgacgg cgaaccaggg ggcgacgatc gccgcgcgcc tggcggaccg tatctgtaac 600
cacgtcacc agcaggcgca ggtgcggtg gacgccaacg agctgcggcg gtacctgccc 660
cacgccgcg ggctgtcgga cgccgaccgc gcgcgggcgc tctccgtgtt ggaccatgcg 720
ctggcccggg ccgcgggggg cgacgggcag cccacccgt cgcggagaa cgactcggtc 780
cgcaaggagg ccgacgcct gctggaggcg cagcagtggt ttcaggccac cagccccggc 840
ctgtacgcca tcagcgaatt gcgattctgg ctgcgtccg gcgaccgcgc cggccagacc 900
accatggacg cgtttgccag caacctgacc gcgctggcgc ggcgcgagtt gcagcaggag 960
accgccgcgg tggccgtgga actggcgctg ttcgggcggc gggcggagca tttcgatcgc 1020
gcgttcggga gccacctggc ggcgctggat atggtggacg ccctaata 1068

```

```

<210> 60
<211> 356
<212> PRT
<213> Herpes Virus

```

```

<400> 60
Tyr Val Phe Gln Ile Glu Leu Leu Arg Arg Cys Asp Pro His Ile Gly
  1             5             10            15

Arg Gly Lys Leu Pro Gln Leu Lys Leu Asn Ala Leu Gln Val Arg Ala
  20             25            30

Leu Arg Arg Arg Leu Arg Pro Gly Leu Glu Ala Gln Ala Gly Ala Phe
  35             40            45

Leu Thr Pro Leu Ser Val Thr Leu Glu Leu Leu Leu Glu Tyr Ala Trp
  50             55            60

Arg Glu Gly Glu Arg Leu Leu Gly Ser Leu Glu Thr Phe Ala Thr Ala
  65             70            75            80

Gly Asp Val Ala Ala Phe Phe Thr Glu Thr Met Gly Leu Ala Arg Pro
  85             90            95

Cys Pro Tyr His Gln Arg Val Arg Leu Asp Thr Tyr Gly Gly Thr Val
 100            105            110

His Met Glu Leu Cys Phe Leu His Asp Val Glu Asn Phe Leu Lys Gln
 115            120            125

Leu Asn Tyr Cys His Leu Ile Thr Pro Ser Arg Gly Ala Thr Ala Ala
 130            135            140

Leu Glu Arg Val Arg Glu Phe Met Val Gly Ala Val Gly Ser Gly Leu
 145            150            155            160

Ile Val Pro Pro Glu Leu Ser Asp Pro Ser His Pro Cys Ala Val Cys
 165            170            175

Phe Glu Glu Leu Cys Val Thr Ala Asn Gln Gly Ala Thr Ile Ala Arg

```

180					185					190						
Arg	Leu	Ala	Asp	Arg	Ile	Cys	Asn	His	Val	Thr	Gln	Gln	Ala	Gln	Val	
195					200					205						
Arg	Leu	Asp	Ala	Asn	Glu	Leu	Arg	Arg	Tyr	Leu	Pro	His	Ala	Ala	Gly	
210					215					220						
Leu	Ser	Asp	Ala	Asp	Arg	Ala	Arg	Ala	Leu	Ser	Val	Leu	Asp	His	Ala	
225					230					235					240	
Leu	Ala	Arg	Thr	Ala	Gly	Gly	Asp	Gly	Gln	Pro	His	Pro	Ser	Pro	Glu	
245					250					255						
Asn	Asp	Ser	Val	Arg	Lys	Glu	Ala	Asp	Ala	Leu	Leu	Glu	Ala	His	Asp	
260					265					270						
Val	Phe	Gln	Ala	Thr	Thr	Pro	Gly	Leu	Tyr	Ala	Ile	Ser	Glu	Leu	Arg	
275					280					285						
Phe	Trp	Leu	Ala	Ser	Gly	Asp	Arg	Ala	Gly	Gln	Thr	Thr	Met	Asp	Ala	
290					295					300						
Phe	Ala	Ser	Asn	Leu	Thr	Ala	Leu	Ala	Arg	Arg	Glu	Leu	Gln	Gln	Glu	
305					310					315					320	
Thr	Ala	Ala	Val	Ala	Val	Glu	Leu	Ala	Leu	Phe	Gly	Arg	Arg	Ala	Glu	
325					330					335						
His	Phe	Asp	Arg	Ala	Phe	Gly	Ser	His	Leu	Ala	Ala	Leu	Asp	Met	Val	
340					345					350						
Asp	Ala	Leu	Ile													
355																

<210> 61
 <211> 369
 <212> DNA
 <213> Herpes Virus

<400> 61
 gagaagatgc tgcgggtcag cgtccacggc gaggtgctgc ccgcgacgtt cgccgcgggtc 60
 gccaacggct ttgcggcgcg cgcgcgcttc tgcgccctga cggcggggcg gggcacgggtc 120
 atcgacaacc gtcggcgccc gggegtgttc gacgcgcacc ggttcatgcg agcgtctctc 180
 ctgcgacacc aggtggaccc ggccctgctc cccagcatca cccatcgctt cttcgagctc 240
 gtcaacgggc cctctttga tcactccacc cacagcttcg cccagccccc caacaccgcg 300
 ctgtattaca gcgtcgagaa cgtgggggtc ctgccgcacc tgaaggagga gctcgcccgg 360
 ttcattcatg 369

<210> 62
 <211> 123
 <212> PRT
 <213> Herpes Virus

<400> 62
 Glu Lys Met Leu Arg Val Ser Val His Gly Glu Val Leu Pro Ala Thr
 1 5 10 15
 Phe Ala Ala Val Ala Asn Gly Phe Ala Ala Arg Ala Arg Phe Cys Ala

	20		25		30
Leu Thr Ala Gly Ala Gly Thr Val Ile Asp Asn Arg Ser Ala Pro Gly					
	35		40		45
Val Phe Asp Ala His Arg Phe Met Arg Ala Ser Leu Leu Arg His Gln					
	50		55		60
Val Asp Pro Ala Leu Leu Pro Ser Ile Thr His Arg Phe Phe Glu Leu					
	65		70		75
					80
Val Asn Gly Pro Leu Phe Asp His Ser Thr His Ser Phe Ala Gln Pro					
		85		90	95
Pro Asn Thr Ala Leu Tyr Tyr Ser Val Glu Asn Val Gly Leu Leu Pro					
	100		105		110
His Leu Lys Glu Glu Leu Ala Arg Phe Ile Met					
	115		120		

<210> 63
 <211> 2358
 <212> DNA
 <213> Herpes Virus

<400> 63
 atggcgcgcc cgggtgtccga gcccaccgtg gcccgctcaaa agttgttagc cctgctcggg 60
 caggtgcaga cctatgtgtt tcagatagag ctgctccggc ggtgcgaccc ccacatcgga 120
 cgggggaagc tcccccaact gaagctgaac gcgcttcagg tgcgggcgct gcggcgctcg 180
 ctgaggccgg gcctggaggc ccaggccggg gcctttctca cccgctgtc ggtcaccctg 240
 gagttgctgc tagagtacgc gtggcgcgag ggcgagcggc tcctgggcag cctggagacg 300
 ttcgcgaccg cgggagacgt cgcggcgctt ttcacggaga ccatgggcct ggcccgaacc 360
 tgtccgtatc accaacgggt caggctggat acgtatggcg ggaccgtcca tatggagctg 420
 tgtttcctgc acgacgtcga gaactttcta aagcagctaa actactgcca cctcatcacc 480
 ccctcgcgcg gcgccaccgc cgcgctggag cgcgttcggg agtttatggg gggggcgggtg 540
 ggggtcgggc ttatcgtccc cccggagctt agcgaccctg cccaccctg cgcggtctgt 600
 ttcgaggaac tgttgtgtgac ggcgaaccag ggggcgacga tcgcccgcg cctggcggac 660
 cgtatctgta accacgtcac ccagcaggcg caggtgcggc tggacgcaa cgagctgcgg 720
 cggtagctgc cccacgcgcg cgggctgtcg gacgcgacc gcgcgcgggc gctctccgtg 780
 ttggaccatg cgttgcccg gaccgcggg ggcgacggg agccccacc gtcgcgccag 840
 aacgactcgg tccgcaagga ggcgcgacgc ctgctggagg cgcacgacgt gtttcaggcc 900
 accacgcccg gcctgtacgc catcagcgaa ttgcgattct ggctcgcgtc cggcgaccgc 960
 gccggccaga ccaccatgga cgcgtttgcc agcaacctga ccgcgctggc gcggcgcgag 1020
 ttgcagcagg agaccgcccg ggtggccgtg gaactggcgc tgttcgggcg gcgggcggag 1080
 catttcgatc gcgcgttcgg gagccacctg gcggcgctgg atatggtgga cgccttaata 1140
 atcggcggtc aggccacgtc acccgacgat cagatcgagg cgtcatccg cgcgtgctac 1200
 gaccaccacc tgacgacgcc gctcttgccg cgcctcgtca gccccgaaca gtgcgacgag 1260
 gaggcgctgc gtgcgctgct ggcgcgcatg ggggcggggg gcgcggcgga cgcgccaaag 1320
 ggcggcgccg gccccgacga cgacggggac cgtgtcgccg tagaggaagg ggcacggggg 1380
 ttgggagctc ccgggggcgg gggcgaggac gaagaccgtc gccgcgggcc cggggggcag 1440
 gggcccgaag cgtgggggga catcgccacg caagcggccg cggacgtgcg ggagcgacgg 1500
 cggctgtacg cggaccgcct gacgaagcgg tcgttgcca gcctggggcg ctgcgtccgc 1560
 gagcagcgcg gggagctcga gaagatgctg cgggtcagcg tccacggcga ggtgtgcgcc 1620
 gcgacgttcg ccgcggctgc caacggcttt gcggcgcgcg cgcgcttctg gcacctgacg 1680
 gcgggcgcgg gcacggctcat cgacaaccgc tcggcgccgg gcgtgttcga cgcgcaccgg 1740
 ttcagtcgag cgtctctcct gcgacaccag gtggaccggc ccctgctccc cagcatcacc 1800
 catcgcttct tcgagctcgt caacggggccc ctctttgatc actccacca cagcttcgcc 1860
 cagcccccca acaccgcgt gtattacagc gtcgagaacg tggggctcct gccgcacctg 1920
 aaggaggagc tcgcccgtt catcatgggg cgggggggct cgggtgctga ttgggcgctc 1980
 agcgaatttc agaggtttta ctgttttgac ggcatttccg gaataacgcc cactcagcgc 2040

```

gccgcctggc gatatatctg cgagctgatt atcgccacca cactctttgc ctccggtctac 2100
cggcgccggg agctcgagtt gcgccgcccg gactgcagcc gcccgacctc cgaaggctcgt 2160
taccgttacc cggccggcgt atatctcacg tacgactccg actgtccgct ggtggccatc 2220
gtcgagagcg ccccgacggt ctgtatcggc ccccggtcgg tcgtgggtcta cgaccgagac 2280
gttttctcga tctctactc ggtcctccag cacctcgccc ccaggctacc tgacggggggg 2340
cacgacgggc ccccgtag                                     2358

```

<210> 64
 <211> 785
 <212> PRT
 <213> Herpes Virus

```

<400> 64
Met Ala Ala Pro Val Ser Glu Pro Thr Val Ala Arg Gln Lys Leu Leu
  1              5              10              15

Ala Leu Leu Gly Gln Val Gln Thr Tyr Val Phe Gln Ile Glu Leu Leu
      20              25              30

Arg Arg Cys Asp Pro His Ile Gly Arg Gly Lys Leu Pro Gln Leu Lys
      35              40              45

Leu Asn Ala Leu Gln Val Arg Ala Leu Arg Arg Arg Leu Arg Pro Gly
      50              55              60

Leu Glu Ala Gln Ala Gly Ala Phe Leu Thr Pro Leu Ser Val Thr Leu
      65              70              75              80

Glu Leu Leu Leu Glu Tyr Ala Trp Arg Glu Gly Glu Arg Leu Leu Gly
      85              90              95

Ser Leu Glu Thr Phe Ala Thr Ala Gly Asp Val Ala Ala Phe Phe Thr
      100              105              110

Glu Thr Met Gly Leu Ala Arg Pro Cys Pro Tyr His Gln Arg Val Arg
      115              120              125

Leu Asp Thr Tyr Gly Gly Thr Val His Met Glu Leu Cys Phe Leu His
      130              135              140

Asp Val Glu Asn Phe Leu Lys Gln Leu Asn Tyr Cys His Leu Ile Thr
      145              150              155              160

Pro Ser Arg Gly Ala Thr Ala Ala Leu Glu Arg Val Arg Glu Phe Met
      165              170              175

Val Gly Ala Val Gly Ser Gly Leu Ile Val Pro Pro Glu Leu Ser Asp
      180              185              190

Pro Ser His Pro Cys Ala Val Cys Phe Glu Glu Leu Cys Val Thr Ala
      195              200              205

Asn Gln Gly Ala Thr Ile Ala Arg Arg Leu Ala Asp Arg Ile Cys Asn
      210              215              220

His Val Thr Gln Gln Ala Gln Val Arg Leu Asp Ala Asn Glu Leu Arg
      225              230              235              240

Arg Tyr Leu Pro His Ala Ala Gly Leu Ser Asp Ala Asp Arg Ala Arg
      245              250              255

```


Ala Leu Ser Val Leu Asp His Ala Leu Ala Arg Thr Ala Gly Gly Asp
 260 265 270
 Gly Gln Pro His Pro Ser Pro Glu Asn Asp Ser Val Arg Lys Glu Ala
 275 280 285
 Asp Ala Leu Leu Glu Ala His Asp Val Phe Gln Ala Thr Thr Pro Gly
 290 295 300
 Leu Tyr Ala Ile Ser Glu Leu Arg Phe Trp Leu Ala Ser Gly Asp Arg
 305 310 315 320
 Ala Gly Gln Thr Thr Met Asp Ala Phe Ala Ser Asn Leu Thr Ala Leu
 325 330 335
 Ala Arg Arg Glu Leu Gln Gln Glu Thr Ala Ala Val Ala Val Glu Leu
 340 345 350
 Ala Leu Phe Gly Arg Arg Ala Glu His Phe Asp Arg Ala Phe Gly Ser
 355 360 365
 His Leu Ala Ala Leu Asp Met Val Asp Ala Leu Ile Ile Gly Gly Gln
 370 375 380
 Ala Thr Ser Pro Asp Asp Gln Ile Glu Ala Leu Ile Arg Ala Cys Tyr
 385 390 395 400
 Asp His His Leu Thr Thr Pro Leu Leu Arg Arg Leu Val Ser Pro Glu
 405 410 415
 Gln Cys Asp Glu Glu Ala Leu Arg Arg Val Leu Ala Arg Met Gly Ala
 420 425 430
 Gly Gly Ala Ala Asp Ala Pro Lys Gly Gly Ala Gly Pro Asp Asp Asp
 435 440 445
 Gly Asp Arg Val Ala Val Glu Glu Gly Ala Arg Gly Leu Gly Ala Pro
 450 455 460
 Gly Gly Gly Gly Glu Asp Glu Asp Arg Arg Arg Gly Pro Gly Gly Gln
 465 470 475 480
 Gly Pro Glu Thr Trp Gly Asp Ile Ala Thr Gln Ala Ala Ala Asp Val
 485 490 495
 Arg Glu Arg Arg Arg Leu Tyr Ala Asp Arg Leu Thr Lys Arg Ser Leu
 500 505 510
 Ala Ser Leu Gly Arg Cys Val Arg Glu Gln Arg Gly Glu Leu Glu Lys
 515 520 525
 Met Leu Arg Val Ser Val His Gly Glu Val Leu Pro Ala Thr Phe Ala
 530 535 540
 Ala Val Ala Asn Gly Phe Ala Ala Arg Ala Arg Phe Cys Ala Leu Thr
 545 550 555 560
 Ala Gly Ala Gly Thr Val Ile Asp Asn Arg Ser Ala Pro Gly Val Phe
 565 570 575

Asp Ala His Arg Phe Met Arg Ala Ser Leu Leu Arg His Gln Val Asp
 580 585 590
 Pro Ala Leu Leu Pro Ser Ile Thr His Arg Phe Phe Glu Leu Val Asn
 595 600 605
 Gly Pro Leu Phe Asp His Ser Thr His Ser Phe Ala Gln Pro Pro Asn
 610 615 620
 Thr Ala Leu Tyr Tyr Ser Val Glu Asn Val Gly Leu Leu Pro His Leu
 625 630 635 640
 Lys Glu Glu Leu Ala Arg Phe Ile Met Gly Ala Gly Gly Ser Gly Ala
 645 650 655
 Asp Trp Ala Val Ser Glu Phe Gln Arg Phe Tyr Cys Phe Asp Gly Ile
 660 665 670
 Ser Gly Ile Thr Pro Thr Gln Arg Ala Ala Trp Arg Tyr Ile Arg Glu
 675 680 685
 Leu Ile Ile Ala Thr Thr Leu Phe Ala Ser Val Tyr Arg Cys Gly Glu
 690 695 700
 Leu Glu Leu Arg Arg Pro Asp Cys Ser Arg Pro Thr Ser Glu Gly Arg
 705 710 715 720
 Tyr Arg Tyr Pro Pro Gly Val Tyr Leu Thr Tyr Asp Ser Asp Cys Pro
 725 730 735
 Leu Val Ala Ile Val Glu Ser Ala Pro Asp Gly Cys Ile Gly Pro Arg
 740 745 750
 Ser Val Val Val Tyr Asp Arg Asp Val Phe Ser Ile Leu Tyr Ser Val
 755 760 765
 Leu Gln His Leu Ala Pro Arg Leu Pro Asp Gly Gly His Asp Gly Pro
 770 775 780

Pro
 785

<210> 65
 <211> 514
 <212> DNA
 <213> Herpes Virus

<400> 65
 tacctggcgc gcgcgcgagg actcgtgggg gccatggtat ttagcaccaa ctcggccctc 60
 catctcaccg aggtggacga cgccggcccg gcggacccaa aggaccacag caaacctcc 120
 ttttaccgct tcttcctcgt gcccgggacc cactgtggcg ccaaccacac ggtggaccgc 180
 gagggacacg tgggtgcccgg gttcgagggt cgcccaccg cgccctcgt cggcggaacc 240
 caggaatttg ccggcgagca cctggccatg ctgtgtgggt ttccccggc gctgctggcc 300
 aagatgctgt tttacctgga gcgctgcgac ggcggcgtga tcgtcgggcg ccaggagatg 360
 gacgtgtttc gatacgtcgc ggactccaac cagaccgacg tgccctgtaa cctatgcacc 420
 ttcgacacgc gccacgcctg cgtacacacg acgctcatgc gcctccgggc gcgccatcca 480
 aagttcgcca gcgcgcgccg cggagccatc ggcg 514

<210> 66

<211> 171
 <212> PRT
 <213> Herpes Virus

<400> 66
 Tyr Leu Ala Arg Ala Ala Gly Leu Val Gly Ala Met Val Phe Ser Thr
 1 5 10 15
 Asn Ser Ala Leu His Leu Thr Glu Val Asp Asp Ala Gly Pro Ala Asp
 20 25 30
 Pro Lys Asp His Ser Lys Pro Ser Phe Tyr Arg Phe Phe Leu Val Pro
 35 40 45
 Gly Thr His Val Ala Ala Asn Pro Gln Val Asp Arg Glu Gly His Val
 50 55 60
 Val Pro Gly Phe Glu Gly Arg Pro Thr Ala Pro Leu Val Gly Gly Thr
 65 70 75 80
 Gln Glu Phe Ala Gly Glu His Leu Ala Met Leu Cys Gly Phe Ser Pro
 85 90 95
 Ala Leu Leu Ala Lys Met Leu Phe Tyr Leu Glu Arg Cys Asp Gly Gly
 100 105 110
 Val Ile Val Gly Arg Gln Glu Met Asp Val Phe Arg Tyr Val Ala Asp
 115 120 125
 Ser Asn Gln Thr Asp Val Pro Cys Asn Leu Cys Thr Phe Asp Thr Arg
 130 135 140
 His Ala Cys Val His Thr Thr Leu Met Arg Leu Arg Ala Arg His Pro
 145 150 155 160
 Lys Phe Ala Ser Ala Ala Arg Gly Ala Ile Gly
 165 170

<210> 67
 <211> 3591
 <212> DNA
 <213> Herpes Virus

<400> 67
 atggagacaa agcccaagac ggcaaccacc atcaaggtcc cccccgggcc cctgggatac 60
 gtgtacgctc gcgcgtgtcc gtccgaaggc atcgagcttc tggcggtact gtcggcacgc 120
 agcggcgatt ccgacgtcgc cgtggcgccc ctgggtcgtgg gcctgaccgt ggagagcggc 180
 tttgaggcca acgtggccgt ggtcgtgggt tctcgacga cggggctcgg gggtagcgcg 240
 gtgtccctga aactgacgcc ctgcactac agctcgtccg tgtacgtctt tcacggcggc 300
 cggcacctgg accccagcac ccaggccccc aacctgacgc gactttgcga gcgggcacgc 360
 cgccattttg gcttttcgga ctacaccccc cggcccggcg acctcaaaca cgagacgacg 420
 ggggagggcg tgtgtgagcg cctcggcctg gaccggacc gcgcctcct gtatctggtc 480
 gttaccgagg gcttcaagg ggcgtgtgc atcaacaaca cttttctgca cctgggaggg 540
 tcggacaagg taaccatagg cggggcgagg gtgcaccgca taccgtgta cccgttgacg 600
 ctgttcatgc cggattttag ccgtgtcatc gcagagccgt tcaacgcaa ccaccgatcg 660
 atcggggaga aatttaccta ccgcttcgg ttttttaacc gcccctcaa ccgcctcctg 720
 ttcgaggcgg tcgtgggacc cgcgcgctg gcaactgcga gccgaaacgt ggacgcgctg 780
 gccgcgcgg ccgcccacct ggcgtttgac gaaaaccacg agggcgccgc cctccccgcc 840
 gacattacgt tcacggcctt cgaagccagc cagggttaaga cccgcgggg cgggcgcgac 900
 ggcggcgga agggcgcgcc gggcggttc gaacagcgcc tggcctcgt catggccgga 960

```

gacgccgccc tggccctcga gtctatcgtg tcgatggccg tctttgacga gccgccacc 1020
gacatctccg cgtggccgct gttcgagggc caggacacgg ccgcggcccg cgccaacgcc 1080
gtcggggcgt acctggcgcg cgccgcggga ctcgtggggg ccatgggtatt tagcaccaac 1140
tcggccctcc atctcaccga ggtggacgac gccggcccg cggaacccaa ggaccacagc 1200
aaacctctct tttaccgctt cttctcgtg cccgggaccc acgtggcgcg caaccacag 1260
gtggaccgcg agggacacgt ggtgcccggg ttcgagggtc ggcccaccgc gccctcgtc 1320
ggcggaaccc aggaatttgc cggcgagcac ctggccatgc tgtgtgggtt tccccggcg 1380
ctgctggcca agatgctgtt ttacctggag cgctgcgacg gcgccgtgat cgtcggggcg 1440
caggagatgg acgtgtttcg atacgtcgcg gactccaacc agaccgacgt gccctgtaac 1500
ctatgcacct tcgacacgcg ccacgcctgc gtacacacga cgctcatgcg cctccggggc 1560
cgccatccaa agttcgccag cgccgcccgc ggagccatcg gcgtcttcgg gaccatgaac 1620
agcatgtaca gcgactgcga cgtgctggga aactacgcc ccttctcggc cctgaagcgc 1680
gcgagcggat ccgagaccgc ccggaccatc atgcaggaga cgtaccgcgc ggcgaccgag 1740
cgcgctcatg ccgaactcga gacctgcag tacgtggacc aggcgggtccc cagggccatg 1800
ggcgcggtgg agaccatcat caccaaccgc gaggccctgc atacggtggt gaacaacgtc 1860
aggcaggtcg tggaccgcga ggtggagcag ctgatgcgca acctggtgga ggggaggaac 1920
ttcaagtttc gcgacggtct gggcgaggcc aaccacgcca tgtccctgac gctggaccgc 1980
tacgctgctg ggcggtgccc cctgcttcag cttctcgggc ggcgatccaa cctcgccgtg 2040
taccaggacc tggccctgag tcagtgccac ggggtgttcg ccgggcagtc ggtcgagggg 2100
cgcaactttc gcaatcaatt ccaaccggtg ctgcggcggc gcgtgatgga catgtttaac 2160
aacgggttct tgtcgcccaa aacgctgacg gtgcgctct cggagggggc ggctatctgc 2220
gccccagcc taacggcccg ccagacggcc ccgcccagaga gcagcttcga gggcgacgtt 2280
gcccgcgtga ccctgggggt tcccaaggag ctgcgcgtca agagccgcgt gttgttcgcg 2340
ggcgcgagcg ccaacgcgtc cgaggccgcc aaggcgcggg tcgccagcct ccagagcgcc 2400
taccagaagc ccgacaagcg cgtggacatc ctctcggac cgctgggctt tctgctgaag 2460
cagttccacg cggccatctt cccaacggc aagcccccg ggtccaacca gccgaacccg 2520
cagtgttctt ggacggccct ccaacgcaac cagcttccc cccggctcct gtcgcgcgag 2580
gacatcgaga ccatcgctt cattaaaaag ttttccttg actacggcg gataaaactt 2640
attaacctgg ccccaacaa cgtgagcgag ctggcgatgt actacatgg aaaccagatt 2700
ctgcggtact gcgatcact gacatactt atcaacacc ttacggccat catcgcgggg 2760
tcccgccgtc ccccgagcgt gcaggctgcg gccgcgtggt ccgcgcaggg cggggcgggc 2820
ctggaggccg gggccgcgc gctgatggac gccgtggacg cgcattccgg cgctggacg 2880
tccatgttcg ccagctgcaa cctgctgcg cccgtcatgg cggcgcgccc catggtcgtg 2940
ttgggggtga gcatcagcaa gtactacggc atggccggca acgaccgtgt gtttcaggcc 3000
gggaactggg ccagcctgat gggcggcaaa aacgcgtgcc cgctccttat ttttgaccgc 3060
accgcaagt tcgtcctggc ctgtcccgg gccgggtttg tgtgcgcggc ctcaagctc 3120
ggcgcgagag cgcacgaaag ctgcgtgtgc gagcagctcc ggggcattat ctccgagggc 3180
ggggcgcccg tcgccagtag cgtgttcgtg gcgaccgtga aaagcctggg gcccgcacc 3240
cagcagctgc agatcgagga ctggctggcg ctctggagg acgagtacct aagcgaggag 3300
atgatggagc tgaccgcgcg tgccctggag cgcggcaacg cgcagtggtc gacggacgcg 3360
gccctggagg tggcgcacga ggccgaggcc ctagtacgcc aactcggcaa cgccggggag 3420
gtgtttaact ttggggattt tggctgcgag gacgacaacg cgacgcgctt cgccggcccg 3480
ggggcccccg gaccggcatt tgccggccgc aaacgggcgt tccacgggga tgaccggtt 3540
ggggaggggc cccccgacaa aaaggagac ctgacgttgg atatgctgtg a 3591

```

<210> 68
 <211> 1196
 <212> PRT
 <213> Herpes Virus

<400> 68
 Met Glu Thr Lys Pro Lys Thr Ala Thr Thr Ile Lys Val Pro Pro Gly
 1 5 10 15
 Pro Leu Gly Tyr Val Tyr Ala Arg Ala Cys Pro Ser Glu Gly Ile Glu
 20 25 30
 Leu Leu Ala Leu Leu Ser Ala Arg Ser Gly Asp Ala Asp Val Ala Val
 35 40 45

Ala Pro Leu Val Val Gly Leu Thr Val Glu Ser Gly Phe Glu Ala Asn
 50 55 60
 Val Ala Val Val Val Gly Ser Arg Thr Thr Gly Leu Gly Gly Thr Ala
 65 70 75 80
 Val Ser Leu Lys Leu Thr Pro Ser His Tyr Ser Ser Ser Val Tyr Val
 85 90 95
 Phe His Gly Gly Arg His Leu Asp Pro Ser Thr Gln Ala Pro Asn Leu
 100 105 110
 Thr Arg Leu Cys Glu Arg Ala Arg Arg His Phe Gly Phe Ser Asp Tyr
 115 120 125
 Thr Pro Arg Pro Gly Asp Leu Lys His Glu Thr Thr Gly Glu Ala Leu
 130 135 140
 Cys Glu Arg Leu Gly Leu Asp Pro Asp Arg Ala Leu Leu Tyr Leu Val
 145 150 155 160
 Val Thr Glu Gly Phe Lys Glu Ala Val Cys Ile Asn Asn Thr Phe Leu
 165 170 175
 His Leu Gly Gly Ser Asp Lys Val Thr Ile Gly Gly Ala Glu Val His
 180 185 190
 Arg Ile Pro Val Tyr Pro Leu Gln Leu Phe Met Pro Asp Phe Ser Arg
 195 200 205
 Val Ile Ala Glu Pro Phe Asn Ala Asn His Arg Ser Ile Gly Glu Asn
 210 215 220
 Phe Thr Tyr Pro Leu Pro Phe Phe Asn Arg Pro Leu Asn Arg Leu Leu
 225 230 235 240
 Phe Glu Ala Val Val Gly Pro Ala Ala Val Ala Leu Arg Cys Arg Asn
 245 250 255
 Val Asp Ala Val Ala Arg Ala Ala Ala His Leu Ala Phe Asp Glu Asn
 260 265 270
 His Glu Gly Ala Ala Leu Pro Ala Asp Ile Thr Phe Thr Ala Phe Glu
 275 280 285
 Ala Ser Gln Gly Lys Thr Pro Arg Gly Gly Arg Asp Gly Gly Gly Lys
 290 295 300
 Gly Pro Ala Gly Gly Phe Glu Gln Arg Leu Ala Ser Val Met Ala Gly
 305 310 315 320
 Asp Ala Ala Leu Ala Leu Glu Ser Ile Val Ser Met Ala Val Phe Asp
 325 330 335
 Glu Pro Pro Thr Asp Ile Ser Ala Trp Pro Leu Cys Glu Gly Gln Asp
 340 345 350
 Thr Ala Ala Ala Arg Ala Asn Ala Val Gly Ala Tyr Leu Ala Arg Ala
 355 360 365
 Ala Gly Leu Val Gly Ala Met Val Phe Ser Thr Asn Ser Ala Leu His

370	375	380
Leu Thr Glu Val Asp 385	Asp Ala Gly Pro Ala 390	Asp Pro Lys Asp His Ser 395 400
Lys Pro Ser Phe Tyr Arg 405	Phe Phe Leu Val 410	Pro Gly Thr His Val Ala 415
Ala Asn Pro Gln Val Asp 420	Arg Glu Gly His Val Val 425	Pro Gly Phe Glu 430
Gly Arg Pro Thr Ala Pro 435	Leu Val Gly Gly Thr Gln 440	Glu Phe Ala Gly 445
Glu His Leu Ala Met 450	Leu Cys Gly Phe Ser 455	Pro Ala Leu Leu Ala Lys 460
Met Leu Phe Tyr Leu 465	Glu Arg Cys Asp Gly 470	Gly Val Ile Val Gly Arg 475 480
Gln Glu Met Asp Val 485	Phe Arg Tyr Val Ala 490	Asp Ser Asn Gln Thr Asp 495
Val Pro Cys Asn Leu Cys 500	Thr Phe Asp Thr Arg His 505	Ala Cys Val His 510
Thr Thr Leu Met Arg Leu 515	Arg Ala Arg His Pro Lys 520	Phe Ala Ser Ala 525
Ala Arg Gly Ala Ile Gly 530	Val Phe Gly Thr Met Asn 535	Ser Met Tyr Ser 540
Asp Cys Asp Val Leu 545	Gly Asn Tyr Ala Ala 550	Phe Ser Ala Leu Lys Arg 555 560
Ala Asp Gly Ser Glu Thr 565	Ala Arg Thr Ile Met 570	Gln Glu Thr Tyr Arg 575
Ala Ala Thr Glu Arg Val 580	Met Ala Glu Leu Glu Thr 585	Leu Gln Tyr Val 590
Asp Gln Ala Val Pro Thr 595	Ala Met Gly Arg Leu Glu 600	Thr Ile Ile Thr 605
Asn Arg Glu Ala Leu His 610	Thr Val Val Asn Asn Val 615	Arg Gln Val Val 620
Asp Arg Glu Val Glu Gln 625	Leu Met Arg Asn Leu Val 630	Glu Gly Arg Asn 635 640
Phe Lys Phe Arg Asp Gly 645	Leu Gly Glu Ala Asn His 650	Ala Met Ser Leu 655
Thr Leu Asp Pro Tyr Ala 660	Cys Gly Pro Cys Pro Leu 665	Leu Gln Leu Leu 670
Gly Arg Arg Ser Asn Leu 675	Ala Val Tyr Gln Asp Leu 680	Ala Leu Ser Gln 685
Cys His Gly Val Phe Ala 690	Gly Gln Ser Val Glu Gly 695	Arg Asn Phe Arg 700

Asn Gln Phe Gln Pro Val Leu Arg Arg Arg Val Met Asp Met Phe Asn
 705 710 715 720
 Asn Gly Phe Leu Ser Ala Lys Thr Leu Thr Val Ala Leu Ser Glu Gly
 725 730 735
 Ala Ala Ile Cys Ala Pro Ser Leu Thr Ala Gly Gln Thr Ala Pro Ala
 740 745 750
 Glu Ser Ser Phe Glu Gly Asp Val Ala Arg Val Thr Leu Gly Phe Pro
 755 760 765
 Lys Glu Leu Arg Val Lys Ser Arg Val Leu Phe Ala Gly Ala Ser Ala
 770 775 780
 Asn Ala Ser Glu Ala Ala Lys Ala Arg Val Ala Ser Leu Gln Ser Ala
 785 790 795 800
 Tyr Gln Lys Pro Asp Lys Arg Val Asp Ile Leu Leu Gly Pro Leu Gly
 805 810 815
 Phe Leu Leu Lys Gln Phe His Ala Ala Ile Phe Pro Asn Gly Lys Pro
 820 825 830
 Pro Gly Ser Asn Gln Pro Asn Pro Gln Trp Phe Trp Thr Ala Leu Gln
 835 840 845
 Arg Asn Gln Leu Pro Ala Arg Leu Leu Ser Arg Glu Asp Ile Glu Thr
 850 855 860
 Ile Ala Phe Ile Lys Lys Phe Ser Leu Asp Tyr Gly Ala Ile Asn Phe
 865 870 875 880
 Ile Asn Leu Ala Pro Asn Asn Val Ser Glu Leu Ala Met Tyr Tyr Met
 885 890 895
 Ala Asn Gln Ile Leu Arg Tyr Cys Asp His Ser Thr Tyr Phe Ile Asn
 900 905 910
 Thr Leu Thr Ala Ile Ile Ala Gly Ser Arg Arg Pro Pro Ser Val Gln
 915 920 925
 Ala Ala Ala Ala Trp Ser Ala Gln Gly Gly Ala Gly Leu Glu Ala Gly
 930 935 940
 Ala Arg Ala Leu Met Asp Ala Val Asp Ala His Pro Gly Ala Trp Thr
 945 950 955 960
 Ser Met Phe Ala Ser Cys Asn Leu Leu Arg Pro Val Met Ala Ala Arg
 965 970 975
 Pro Met Val Val Leu Gly Leu Ser Ile Ser Lys Tyr Tyr Gly Met Ala
 980 985 990
 Gly Asn Asp Arg Val Phe Gln Ala Gly Asn Trp Ala Ser Leu Met Gly
 995 1000 1005
 Gly Lys Asn Ala Cys Pro Leu Leu Ile Phe Asp Arg Thr Arg Lys Phe
 1010 1015 1020

Val Leu Ala Cys Pro Arg Ala Gly Phe Val Cys Ala Ala Ser Asn Leu
 1025 1030 1035 1040
 Gly Gly Gly Ala His Glu Ser Ser Leu Cys Glu Gln Leu Arg Gly Ile
 1045 1050 1055
 Ile Ser Glu Gly Gly Ala Ala Val Ala Ser Ser Val Phe Val Ala Thr
 1060 1065 1070
 Val Lys Ser Leu Gly Pro Arg Thr Gln Gln Leu Gln Ile Glu Asp Trp
 1075 1080 1085
 Leu Ala Leu Leu Glu Asp Glu Tyr Leu Ser Glu Glu Met Met Glu Leu
 1090 1095 1100
 Thr Ala Arg Ala Leu Glu Arg Gly Asn Gly Glu Trp Ser Thr Asp Ala
 1105 1110 1115 1120
 Ala Leu Glu Val Ala His Glu Ala Glu Ala Leu Val Ser Gln Leu Gly
 1125 1130 1135
 Asn Ala Gly Glu Val Phe Asn Phe Gly Asp Phe Gly Cys Glu Asp Asp
 1140 1145 1150
 Asn Ala Thr Pro Phe Gly Gly Pro Gly Ala Pro Gly Pro Ala Phe Ala
 1155 1160 1165
 Gly Arg Lys Arg Ala Phe His Gly Asp Asp Pro Phe Gly Glu Gly Pro
 1170 1175 1180
 Pro Asp Lys Lys Gly Asp Leu Thr Leu Asp Met Leu
 1185 1190 1195

<210> 69
 <211> 1323
 <212> DNA
 <213> Herpes Virus

<400> 69
 aaaaccaaga agaaatccac ccccaaaggc aaaacccccg tcggggccgc ggtccccgcc 60
 tccgttccgg agcctgtcct cgccctcgga ccccccagacc cggccggggc gccgggtcgcc 120
 gaggcggggc aggcagacgg gccacaggtt ccggcgctct cacaggccct cgaggcgctg 180
 aagactcgcc gctcgcccga gcccccgggc gcagacctcg cccagctgtt cgaggccac 240
 ccaaacgtgg ccgccacggc ggtaagtgc accgcgtgct ccgccgccct ggcccgcgag 300
 gtcgcgcgt gtgcgcggct caccatcagc gccttacggg cgcggtatcc ggcctctccg 360
 gggctgctgg agctctgtgt tatttttttc tttgaacgag tcctcgctt tctcatcgag 420
 aacggggccc ggacgcacac ccaggccggg gtggccggcc cggccgccgc cctgctggag 480
 tttaccctga acatgctgcc ctggaaaacg gccgtggggg actttctggc ctccacgcgc 540
 ctgagcctgg ccgacgtggc cgccatctg cccctcgctc agcacgtgct ggacgaaaac 600
 tctctgatcg gtgcctggc gctggcgaag ctgaccttg tggctaggga tgtcattcgg 660
 gagacggacg ccttttacgg ggaactcgcg gacctggagc tgcagcttcg cgcggcccg 720
 ccggccaatc tgtatacag cctcggcgag tggcttctgg agcgctcgca ggcccaccg 780
 gacacccctt ttgccccgc caccacgac caccagaac cgcttctgta tagagtccag 840
 gctctggcca aatttgcccc tggcgaagag attaggtgag aggcggagga tcgccagatg 900
 cgcgaggccc tcgacgccct cgctcgcggg gtgcagcggc tctcacagca cgccggggccc 960
 ctggcgctaa tgcccgcgcc ggccggggcg gccccgcagg gggctccgcg cccaccccc 1020
 ctggggcccc aggcggttca ggctcggtg gaggaggtgc ggaccagggc ccgtcgggcg 1080
 atcgagggcg cggttaagga gtacttttac cggggggccc tatacagcgc caaggctcta 1140
 caggccagcg acaacaacga ccgcgggttt cacgtggctt cggccgccgt cgtgcccgtg 1200
 gtcacagctg tcgagtcctt gcctgtcttc gaccagcaca cgcgggacat cgcgcagcgc 1260

gccgccattc cgcggccgcc ccgcatcgcg accagcccca cggccatcct gttgcgggat 1320
ctg 1323

<210> 70
<211> 441
<212> PRT
<213> Herpes Virus

<400> 70
Lys Thr Lys Lys Lys Ser Thr Pro Lys Gly Lys Thr Pro Val Gly Ala
1 5 10 15
Ala Val Pro Ala Ser Val Pro Glu Pro Val Leu Ala Ser Ala Pro Pro
20 25 30
Asp Pro Ala Gly Pro Pro Val Ala Glu Ala Gly Glu Asp Asp Gly Pro
35 40 45
Thr Val Pro Ala Ser Ser Gln Ala Leu Glu Ala Leu Lys Thr Arg Arg
50 55 60
Ser Pro Glu Pro Pro Gly Ala Asp Leu Ala Gln Leu Phe Glu Ala His
65 70 75 80
Pro Asn Val Ala Ala Thr Ala Val Lys Phe Thr Ala Cys Ser Ala Ala
85 90 95
Leu Ala Arg Glu Val Ala Ala Cys Ser Arg Leu Thr Ile Ser Ala Leu
100 105 110
Arg Ser Pro Tyr Pro Ala Ser Pro Gly Leu Leu Glu Leu Cys Val Ile
115 120 125
Phe Phe Phe Glu Arg Val Leu Ala Phe Leu Ile Glu Asn Gly Ala Arg
130 135 140
Thr His Thr Gln Ala Gly Val Ala Gly Pro Ala Ala Ala Leu Leu Glu
145 150 155 160
Phe Thr Leu Asn Met Leu Pro Trp Lys Thr Ala Val Gly Asp Phe Leu
165 170 175
Ala Ser Thr Arg Leu Ser Leu Ala Asp Val Ala Ala His Leu Pro Leu
180 185 190
Val Gln His Val Leu Asp Glu Asn Ser Leu Ile Gly Arg Leu Ala Leu
195 200 205
Ala Lys Leu Ile Leu Val Ala Arg Asp Val Ile Arg Glu Thr Asp Ala
210 215 220
Phe Tyr Gly Glu Leu Ala Asp Leu Glu Leu Gln Leu Arg Ala Ala Pro
225 230 235 240
Pro Ala Asn Leu Tyr Thr Arg Leu Gly Glu Trp Leu Leu Glu Arg Ser
245 250 255
Gln Ala His Pro Asp Thr Leu Phe Ala Pro Ala Thr Pro Thr His Pro
260 265 270

Glu Pro Leu Leu Tyr Arg Val Gln Ala Leu Ala Lys Phe Ala Arg Gly
 275 280 285
 Glu Glu Ile Arg Val Glu Ala Glu Asp Arg Gln Met Arg Glu Ala Leu
 290 295 300
 Asp Ala Leu Ala Arg Gly Val Asp Ala Val Ser Gln His Ala Gly Pro
 305 310 315 320
 Leu Gly Val Met Pro Ala Pro Ala Gly Ala Ala Pro Gln Gly Ala Pro
 325 330 335
 Arg Pro Pro Pro Leu Gly Pro Glu Ala Val Gln Val Arg Leu Glu Glu
 340 345 350
 Val Arg Thr Gln Ala Arg Arg Ala Ile Glu Gly Ala Val Lys Glu Tyr
 355 360 365
 Phe Tyr Arg Gly Ala Val Tyr Ser Ala Lys Ala Leu Gln Ala Ser Asp
 370 375 380
 Asn Asn Asp Arg Arg Phe His Val Ala Ser Ala Ala Val Val Pro Val
 385 390 395 400
 Val Gln Leu Leu Glu Ser Leu Pro Val Phe Asp Gln His Thr Arg Asp
 405 410 415
 Ile Ala Gln Arg Ala Ala Ile Pro Ala Pro Pro Pro Ile Ala Thr Ser
 420 425 430
 Pro Thr Ala Ile Leu Leu Arg Asp Leu
 435 440

<210> 71
 <211> 9495
 <212> DNA
 <213> Herpes Virus

<400> 71
 atgggtggcg gaaacaacac taaccccggg ggtccggtcc ataaacaggc cgggtctctg 60
 gccagcaggg cacatatgat cgcgggcacc ccaccgcact ccacgatgga acgcgggggg 120
 gatcgcgaca tcgtgggtcac cgggtgctcgg aaccagttcg cgcccgcact ggagccgggg 180
 ggggtcgggtat cgtgcatgcg ctcgctcgctg tcttttctca gcctcatatt tgatgtgggc 240
 cctcgcgacg tcctgtccgc ggaggccatc gagggatggt tggtcgaggg gggcgagtgg 300
 acgcgcgcga ccgcggggcc tgggcccgcg cgcattgtgt cgatcgctga gctccccaac 360
 ttctctgagt acccaggggc gcgcggcgga ctgcgctgtg tcttctcgcg cgtatacggc 420
 gaggtgggct tcttcgggga gcccgcggcg ggcctgctgg agacacaatg cccgcacac 480
 acgttcttcg ccggcccgtg ggccctgcgc cccctgtcgt acacgctcct aaccattggc 540
 cccctagggg tagggctgtt cagggacggc gacaccgcat acctttttga cccgcacggc 600
 cttccggagg gcacccccgc gttcatcgcc aaagtgcggg cgggggacat gtatccatac 660
 ctgacgtatt acaccgcga tcgcccggac gtacgggtgg cgggagccat ggtgtttttc 720
 gtgcgcgtcg gcccggaacc cgcggctcct gcggacttga cggccgcggc tctgcatctt 780
 tacggggcca gcgagactta cctgcaggac gaagcggtca gcgaacggcg cgtggccatc 840
 acgcaccccc tgcggggcga gatcgcgggc ctgggggagc cctgcgtcgg cgtggggccc 900
 cgggaggggg tagggggccc ggggccacac ccgccacag ccgccagtc gccgccaccg 960
 acccggggccc gtcgcgacga cagggcctcc gagacatccc gggggacggc cggtcctcgt 1020
 gcaaaaccag aggcgaagcg cccgaatcgg gcgcccagc atgtatgggc ggtggccctg 1080
 aagggtacct caccacgga tccccctcc gccgacccac cctccgcca cccacctcc 1140
 gcgatccac caccgcctcc ctccgcccc aagaccccc ccgcagaggc ggccgaagaa 1200
 gatgacgacg acatgcgggt cctggagatg ggcgtcgtcc cggttggtcg gcaccgggca 1260

cgctactcgg	cgggccttcc	caagcgccgc	cgaccacac	ggactccgcc	ttccagcgtc	1320
gaagacctga	cttcggggga	gaaaacgaaa	cgctcggccc	cccctgccaa	aaccaagaa	1380
aaatccaccc	ccaaaggcaa	aacccccgtc	ggggccgcgg	tccccgcctc	cgttccggag	1440
cctgtcctcg	cctcggcacc	ccccgacccg	ggcgggccgc	cggtcgcgga	ggcgggcgag	1500
gacgacgggc	ccacggttcc	ggcgtcctca	caggccctcg	aggcgctgaa	gactcggcgc	1560
tcgcccagac	ccccggggcg	agacctcgcc	cagctgttcg	aggccacccc	aaacgtggcc	1620
gccacggcgg	ttaaagtac	cgcgtgctcc	ggcgccctgg	cccgcgaggt	cgccgcgtgt	1680
tcgcggtcca	ccatcagcgc	cttacggtcg	ccgtatccgg	cctctccggg	gctgctggag	1740
ctctgtgtta	tttttttctt	tgaacgcgtc	ctcgccttcc	tcacgcagaa	cggggcccg	1800
acgcacaccc	aggccggggg	ggccggcccg	ggcgccgccc	tgctggagtt	tacctgaac	1860
atgctgccct	ggaaaacggc	cgtgggggac	tttctggcct	ccacgcgcct	gagcctggcc	1920
gacgtggccg	cccatctgcc	cctcgtccag	cacgtgctgg	acgaaaactc	tctgatcggt	1980
cgcctggcgc	tggcgaagct	gatccttgtg	gctagggatg	tcattcgggg	gacggacgcc	2040
ttttacgggg	aactcgcgga	cctggagctg	cagcttcgcg	cggccccgcg	ggccaatctg	2100
tatacacgcc	tcggcgagtg	gcttctggag	cgctcgcagg	cccacccgga	cacctttttt	2160
gcccccgcca	ccccgacgca	cccagaaccg	ctctgtata	gagtcaggc	ctaggccaaa	2220
tttgcccggtg	gcgaagagat	tagggtggag	ggcgaggatc	gccagatgcg	cgaggccctc	2280
gacgccctcg	ctcgcggggg	cgacgcggtc	tcacagcacg	ccggggccct	cggcgtaatg	2340
cccgccccgg	ccggggcggc	cccgacgggg	gtccgcgcgc	cacccccctt	gggccccgag	2400
gccgttcagg	ttcggctgga	ggaggtgcgg	acccaggccc	gtcgggagat	cgagggcgcg	2460
gttaaggagt	acttttaccg	gggggcccga	tacagcgcca	aggctctaca	ggccagcgac	2520
aacaacgacc	gcccgtttca	cgtggcttcg	ggcgccgtcg	tgcccgtggt	ccagtgctc	2580
gagtcctcgc	ctgtcttcga	ccagcacacg	cgggacatcg	cgcagcgcg	cgccattccc	2640
gccccgcccc	cgatcgcgac	cagccccacg	ggcatcctgt	tcggggatct	gatccagcgg	2700
ggccagacgc	tggacgcccc	cgaggacctg	ggggcctggc	tctccgtcct	gacggacgcc	2760
gccaaccaag	ggctgataga	acgcaagcca	ctggacgagc	tggcgcgag	catccgcgac	2820
attaacgacc	aacaggcgcg	ccgcagctcg	ggtctggccg	agctgcggcg	cttcgacgcc	2880
ctagatgcgg	ccctgggcca	gcagctggac	agcgacgcgg	cctttgttcc	tgcgccccgg	2940
gcgtcgccct	accccgacga	cggcgggctg	tcgccagagg	ccacgcgcac	ggccgaggaa	3000
gcgctgcggc	aggcgcgggc	catggatgcc	gccaagctga	cggcagagct	cggccctctc	3060
gcgctgcccc	gtttgcggga	gcgcgcgcgc	tccttgagg	caatgctcga	gggagcgcg	3120
gagcgggcga	aggtggcccc	cgacgccccg	gagaagtctt	tgcaaaaact	ccaggggggtc	3180
ctgcgcccc	tccttgactt	tgtggggcta	aaggcctgtc	cggccgtcct	ggcgaccctg	3240
cgggcctccc	tgccggcggg	ctggctcgac	ctccccgagg	ccgttcgggg	ggcgccccct	3300
gaggttacgg	cggcgctgcg	ggcgacatg	tgggggctgc	tggggagta	ccgagatgcc	3360
ctggagcacc	cgactccgga	cacggcgacg	gctctgtctg	gcttgcatcc	cagcttcgtg	3420
gtgtgtctga	agaacctgtt	cgcgcacgct	ccagagactc	cgtttctctt	cgacttcttc	3480
gccgatcacg	ccccgatcat	agccccagcc	gtctcgaacg	ccatcaacgc	cggcagcgcc	3540
gccgtcgcaa	cggcagaccc	tgctcgacg	gtggatgcgg	ccgtgcgggc	gcaccgcgtc	3600
ctggtcgacg	cggtgacggc	cctgggcgcg	ggcgccagcg	acccggcctc	ccccctggcc	3660
ttcctagcgg	ccatggccga	cagcgcccg	ggatacgtca	aggcgactcg	gctggccctg	3720
gacgcgcggg	tggccatcgc	ccagctcacg	accttagggg	cggtgcgcgc	cgacctgttc	3780
gtccaggtgc	gcccgggccc	caaccaaccg	gagggagagc	atgcctccct	gatccaggcc	3840
gcgacgcgcg	cgaccaccgg	cgcgcgggaa	agcctcgcg	gccacgaggg	caggttcggg	3900
ggcctgttgc	acgccgaagg	gacggccggg	gaccactccc	ccagcgggcg	cgccctgcag	3960
gagctgggaa	aggtcatcgg	cgccacgcga	cgcgcgcgg	acgaacttga	ggccgccacc	4020
gccgacctca	gagagaagat	ggcgggccag	cgcgcgccga	gtagccacga	gcgctggggc	4080
gccgacgtgg	aggccgtgct	ggaccgcgtg	gaaagcggtg	ccgagtttga	cgtggctcag	4140
ctccgtcgcc	tgcaggcgct	ggcgggcacg	cacggctaca	accccgggga	cttcgaaaag	4200
cggggcgaa	aggcgctggg	aaccaacgcc	aaggcggtga	cccttgccct	ggagacggcc	4260
cttgcgttta	accatacac	ccccgagaac	cagcgccacc	ccatgctccc	cccgctcgca	4320
gccattcacc	gcacgactg	gagcgcgccc	ttcgggggcg	cggccgacac	gtacgcccgc	4380
atgtttcggg	tggacaccga	gcccctggcg	cggcttctgc	ggctggcggg	ggggctgctg	4440
gagcgggccc	aggcgaacga	cgggtttatc	gactaccacg	aggccgtcct	acacctgtcg	4500
gaagacttgg	ggggcggtgc	ggccctgcgc	cagtacgtgc	cgttttttca	aaagggctac	4560
gccgagtacg	tggatatccg	cgatcgctcg	gacgcccctc	gggcccagcg	gcggcgcgcg	4620
atcggaagcg	tggcgctgga	cctggccgcc	ggcgcgagg	agatatccgc	ggcgcgcaac	4680
gacccggcgg	ggcccgccga	gcttgtccgg	gcaggggtca	ccctgccctg	cccgagcgag	4740
gacgcgctgg	tggcgtgcgt	ggcggcgctg	gagcgcggtg	accagagccc	cgtgaaggac	4800
acggcgtagc	cgcactacgt	cgcattcgtg	acccgacagg	acctggccga	taccaaggac	4860
gccgtgggtg	gcgcaaaaca	gcagcgcgcc	gaagccaccg	agcggggtcac	ggcggggctg	4920

cgaggaggtgc	tggccgcgcg	cgagcgccgg	gcccagctcg	aggccgaggg	tctggccaat	4980
ctgaagaccc	tgctgaaggt	ggtcgccgtc	ccggcgaccg	tggccaagac	gctggaccag	5040
gcgcgctcgg	cggaggagat	cgcgatcag	gtcgaaattc	tggtggacca	gacggagaag	5100
gcgcgcgagc	tcgacgtgca	ggcgtcgcc	tggttgaac	atgccacagc	tacctttgag	5160
acgcacccgc	taagcgcggc	cagcgcgac	ggcccggg	tcctgacgcg	acagggcgcg	5220
cgcctgcagg	cgctcttcga	caccgctcgc	cgcgtcgagg	ccctgcggag	gtctctcgag	5280
gaggccgagg	cggagtggga	cgaggtatgg	ggtcgcttcg	gccgcgttcg	cgggggggcc	5340
tggaaatcgc	ccgagggatt	tcgcgcggca	tcgagcagc	ttcgcgccct	gcaggacacc	5400
accaacactg	tgctggggct	gcgagcccag	cgggactacg	agcgccttcc	cgccaagtac	5460
cagggcgctc	tgggcgcca	gagcgccgag	cgggccgggg	ccgtggagga	gctcgggggg	5520
cgcggtggccc	aacacgccga	cctgagcgcc	cggtcgcg	acgaggtgg	gccaaggggtg	5580
gcctgggaga	tgaactttga	cacctgggg	ggcctgttgg	cggaattcga	cgcggtggcc	5640
ggggacctgg	ccccatgggc	ggtggaggag	ttccggggcg	cgcgggagct	catccaacgc	5700
cgcctgggct	tatatagcgc	gtacgccaag	gccacaggcc	agacgggcgc	gggcgcggcg	5760
gccgcgccc	cgccttgct	cgtggatctt	cgcgccctag	acgcccgcgc	ccgggctc	5820
gcccacccg	gccaagaggc	cgaccgcag	atgctgcgcc	gccggggcga	ggcgtagcctg	5880
cgagtgcgcg	gagggccggg	gcccctgggt	ctgcgcgagg	ccaccagtac	gctggatcgg	5940
ccgttcgccc	ccagcttttt	ggtcccgat	ggaacgccac	tgcagtacgc	gctctgcttc	6000
ccggccgtga	ccgacaagct	cggcgcgctg	ctgatgtgtc	ccgaggcggc	atgcattcgc	6060
cccccgcttc	cgacggacac	cctggagtcg	gcctcgaccg	tcacggccat	gtacgtcctc	6120
accgtcatca	accggcttca	gctggccctc	agcgacgccc	aggccgcca	ctttcagctc	6180
ttcgagcgt	ttgtgcgcca	ccggcaggcg	agatgggggg	cctcgatgga	tggcgggcc	6240
gagctctacg	tcgcccctcg	cgcgaccact	ctcacgcgcg	agtttgggtg	tcgctggg	6300
cagctggaat	gggggggtga	cgcggcgccc	ccggggccgc	cgctcgga	ccagagctcc	6360
actaggcacc	gcgtttcctt	taacgagaac	gacgtgctgg	tggcgctggt	ggccagctcc	6420
ccggaacaca	tttacacctt	ttgggcctg	gatctggttc	gccaacacga	gtacatgcat	6480
ctcacctcc	cccgtgcgtt	tcagaacgca	gcagattcca	tgctattcgt	gcagcgccctg	6540
accccgcatc	cagacgccc	catccgcgtg	ctgccagcgt	tttcggccgg	aggccctccg	6600
acccggggcc	tcattgttcg	cacgcggctg	gcagactggc	gccgcggcaa	ggtgtccgaa	6660
accgacccc	tggcgccctg	gcgctcggtc	cccagctgg	gaaccgagcg	cgctcccg	6720
ctgggaaagc	tgagtccgc	ccaggcgctg	gcggcggtga	gcgtcctcgg	gcgcagtgtg	6780
ctcccaagca	ccgctctggt	cgtcttttgg	acctgcatgt	ttccggacga	ctacacagag	6840
tatgacagt	tcgacgcct	tctgaccgcg	cgtctggaat	ctgggcagac	gctgagcccc	6900
tcgggggggc	gcgaggcgtc	accccccgct	ccccccaacg	ccctctaccg	gcccacgggc	6960
cagcacgtcg	ccgtgcccgc	cgccgccacc	caccgcaccc	ccgcggcgcg	cgttacggcc	7020
atggacctgg	tgctggcggc	agtgtcctg	ggcgcgcccc	tcgtcgtggc	gtctccgaac	7080
accacggcct	ttcccgcgga	gtcggagctg	gagctgtgtc	tcacgctgtt	gcacacagc	7140
gctcgcgggc	cggacgcgc	cttgcgcgat	gcccgtgtcgt	ccgacatcga	gacgtggggc	7200
gtccgcctcc	tgacgcgca	cctgaaccgc	atcgaaaacg	cgtgtctggc	ggcacagctc	7260
ccgcgcctgt	ccgcgctcat	cgccgagcgg	cccctcgccc	ggggcccgc	gtgtctggtg	7320
ctcgtggaca	tctccatgac	cccgttcg	gtgttgtggg	aaaacccgga	cccccccg	7380
ccccccgacg	tgcggtttgt	tggcagcgag	gccaccgagg	agctcccgtt	tgtggcgggc	7440
ggcgaggacg	tctcgccgc	cagcgccacc	gacgaggacc	ccttctcgc	gcgacgtatc	7500
ctcgggcggc	cgttcgacgc	ctccctcctg	tcgggggagc	tattcccggg	gcatccggtg	7560
taccagcgcg	cccccgacga	ccagagcccc	tcgggtccaa	acccgacccc	cggccctgtg	7620
gacctgttg	gggaggagg	ctcgttgggg	cccggaagcc	tggcccccac	gctattcacc	7680
gacgccaccc	ccggcgagcc	cgtccccct	cgcatgtggg	catggattca	cggcctggag	7740
gagctcgct	ctgacgactc	cggcgccccc	gcgcccctcc	ttgccccgga	cccccttctg	7800
cccacggccg	atcagtccgt	ccccacgtcc	cagtgtgcac	cgcgcccccc	tgggcgggca	7860
gtcacgggtc	gcgaagcacg	accgggcgtc	ccggccgaaa	gcacgcggcc	ggcgcccgtg	7920
ggcccccgcg	acgaacttcg	gcgcttgccg	ttcccccaaa	gttccccggc	gcccccgat	7980
gccaccgccc	cccgcccccc	cgctcctcc	cgcgttcttg	ccgcttcttc	gtccgggtcg	8040
cgcgcgcgcc	gacaccgcgc	ggcacgctcc	ctggcgcgcg	ccaccaggc	ttccgcgacc	8100
acccaggggt	ggcggcgcgc	tgcctcccc	gacacggtcg	ccccggttac	cgatttcgcg	8160
cgcgcgcggg	ccccccccaa	acccccagag	ccagcgcccc	acgctttggt	gtctggtgtg	8220
cccccccg	tggggcccca	ggcgcgccg	caggttctc	ccgtctccc	tatcgatccc	8280
gttccgcccc	cggtcgcaac	cggcacggtt	ttgccgggg	gcgaaaacgc	cgcgccccgc	8340
ctaacctcgg	gtcccgcgcc	aacccccccc	agggttcccg	taggcggggc	gcagcggcgc	8400
cttacgcgcc	ccgctgtcgc	gtcgtgtcc	gaatcgcggg	aatccctccc	ttaccctgg	8460
gaccccgccg	accccaacggc	ccctgtttta	ggcgcaacc	cggccgagcc	gacctatcc	8520
tctcccgacg	gtccctctcc	ccgcctccc	gcggtcac	ccgtcgcccc	gccccgacg	8580

```

tcaggccccgc cccccacata cttgacgctg gagggcggtg ttgcgccccg aggccccggtt 8640
tcccgcgcgc ccactacacg gcagccggtg gccacgcca ccacatctgc gcgcccccg 8700
gggcatttga ccgtcagccg cctgtccgcg ccccaacccc agccccagcc ccagccccag 8760
ccccagcccc agccccagcc ccagccccag cccagcccc agccccagcc ccagccccag 8820
ccccagcccc agccccaaacc ccaaccccag ccccaacccc aacccaacc ccagccccaa 8880
ccccagcccc aaccccagcc ccaaccccag ccccaacccc agccccaaacc ccagccccaa 8940
aacgggcatg tagcaccggt ggagtatccg gcggttcggt tccgggcacc gcaaaaccgc 9000
ccatccgtcc cggttccgc gtcttcaca aatccacgca cgggcagctc cttgtctggg 9060
gtgtcttcgt gggcatcctc cctcgcgta cacatcgacg ctaccccccc gcccggtgcg 9120
ctgcttcaga ccctgtatgt ctctgacgac gaagactccg acgccacctc gttgttctc 9180
tcggattccg aggccgaggt gctcgaccca ctccctgggg aaccacactc ccccataaacc 9240
aacgaaccat tcagtgcgtt atccgcccgt gactcccaag aggtgacgcg cttacaattc 9300
ggccccccgc ccgtatcggc aaacgcagtt ctgtcgcgac gctacgtgca acgcaccggt 9360
cgtagcgcgc tggcggtact gatccgcgcc tgttaccgcc tacaacagca gttacagcgg 9420
acccgcgcgg cgctgcttca tcacagcgac gccgtgctga ccagcctaca tcacgtgcgc 9480
atgttactgg gctag 9495

```

<210> 72
 <211> 3164
 <212> PRT
 <213> Herpes Virus

```

<400> 72
Met Gly Gly Gly Asn Asn Thr Asn Pro Gly Gly Pro Val His Lys Gln
  1                      5                      10                      15

Ala Gly Ser Leu Ala Ser Arg Ala His Met Ile Ala Gly Thr Pro Pro
      20                      25                      30

His Ser Thr Met Glu Arg Gly Gly Asp Arg Asp Ile Val Val Thr Gly
      35                      40                      45

Ala Arg Asn Gln Phe Ala Pro Asp Leu Glu Pro Gly Gly Ser Val Ser
      50                      55                      60

Cys Met Arg Ser Ser Leu Ser Phe Leu Ser Leu Ile Phe Asp Val Gly
      65                      70                      75                      80

Pro Arg Asp Val Leu Ser Ala Glu Ala Ile Glu Gly Cys Leu Val Glu
      85                      90                      95

Gly Gly Glu Trp Thr Arg Ala Thr Ala Gly Pro Gly Pro Pro Arg Met
      100                      105                      110

Cys Ser Ile Val Glu Leu Pro Asn Phe Leu Glu Tyr Pro Gly Ala Arg
      115                      120                      125

Gly Gly Leu Arg Cys Val Phe Ser Arg Val Tyr Gly Glu Val Gly Phe
      130                      135                      140

Phe Gly Glu Pro Ala Ala Gly Leu Leu Glu Thr Gln Cys Pro Ala His
      145                      150                      155                      160

Thr Phe Phe Ala Gly Pro Trp Ala Leu Arg Pro Leu Ser Tyr Thr Leu
      165                      170                      175

Leu Thr Ile Gly Pro Leu Gly Met Gly Leu Phe Arg Asp Gly Asp Thr
      180                      185                      190

Ala Tyr Leu Phe Asp Pro His Gly Leu Pro Glu Gly Thr Pro Ala Phe

```

195					200					205					
Ile	Ala	Lys	Val	Arg	Ala	Gly	Asp	Met	Tyr	Pro	Tyr	Leu	Thr	Tyr	Tyr
210					215					220					
Thr	Arg	Asp	Arg	Pro	Asp	Val	Arg	Trp	Ala	Gly	Ala	Met	Val	Phe	Phe
225					230					235					240
Val	Pro	Ser	Gly	Pro	Glu	Pro	Ala	Ala	Pro	Ala	Asp	Leu	Thr	Ala	Ala
				245					250					255	
Ala	Leu	His	Leu	Tyr	Gly	Ala	Ser	Glu	Thr	Tyr	Leu	Gln	Asp	Glu	Ala
			260					265					270		
Phe	Ser	Glu	Arg	Arg	Val	Ala	Ile	Thr	His	Pro	Leu	Arg	Gly	Glu	Ile
			275				280					285			
Ala	Gly	Leu	Gly	Glu	Pro	Cys	Val	Gly	Val	Gly	Pro	Arg	Glu	Gly	Val
					295						300				
Gly	Gly	Pro	Gly	Pro	His	Pro	Pro	Thr	Ala	Ala	Gln	Ser	Pro	Pro	Pro
305					310					315					320
Thr	Arg	Ala	Arg	Arg	Asp	Asp	Arg	Ala	Ser	Glu	Thr	Ser	Arg	Gly	Thr
				325					330					335	
Ala	Gly	Pro	Ser	Ala	Lys	Pro	Glu	Ala	Lys	Arg	Pro	Asn	Arg	Ala	Pro
			340					345					350		
Asp	Asp	Val	Trp	Ala	Val	Ala	Leu	Lys	Gly	Thr	Pro	Pro	Thr	Asp	Pro
			355				360					365			
Pro	Ser	Ala	Asp	Pro	Pro	Ser	Ala	Asp	Pro	Pro	Ser	Ala	Ile	Pro	Pro
					375					380					
Pro	Pro	Pro	Ser	Ala	Pro	Lys	Thr	Pro	Ala	Ala	Glu	Ala	Ala	Glu	Glu
385					390					395					400
Asp	Asp	Asp	Asp	Met	Arg	Val	Leu	Glu	Met	Gly	Val	Val	Pro	Val	Gly
				405					410					415	
Arg	His	Arg	Ala	Arg	Tyr	Ser	Ala	Gly	Leu	Pro	Lys	Arg	Arg	Arg	Pro
			420					425					430		
Thr	Trp	Thr	Pro	Pro	Ser	Ser	Val	Glu	Asp	Leu	Thr	Ser	Gly	Glu	Lys
			435				440					445			
Thr	Lys	Arg	Ser	Ala	Pro	Pro	Ala	Lys	Thr	Lys	Lys	Lys	Ser	Thr	Pro
					455					460					
Lys	Gly	Lys	Thr	Pro	Val	Gly	Ala	Ala	Val	Pro	Ala	Ser	Val	Pro	Glu
465					470					475					480
Pro	Val	Leu	Ala	Ser	Ala	Pro	Pro	Asp	Pro	Ala	Gly	Pro	Pro	Val	Ala
				485					490					495	
Glu	Ala	Gly	Glu	Asp	Asp	Gly	Pro	Thr	Val	Pro	Ala	Ser	Ser	Gln	Ala
			500					505					510		
Leu	Glu	Ala	Leu	Lys	Thr	Arg	Arg	Ser	Pro	Glu	Pro	Pro	Gly	Ala	Asp
			515				520					525			

Leu Ala Gln Leu Phe Glu Ala His Pro Asn Val Ala Ala Thr Ala Val
 530 535 540
 Lys Phe Thr Ala Cys Ser Ala Ala Leu Ala Arg Glu Val Ala Ala Cys
 545 550 555 560
 Ser Arg Leu Thr Ile Ser Ala Leu Arg Ser Pro Tyr Pro Ala Ser Pro
 565 570 575
 Gly Leu Leu Glu Leu Cys Val Ile Phe Phe Phe Glu Arg Val Leu Ala
 580 585 590
 Phe Leu Ile Glu Asn Gly Ala Arg Thr His Thr Gln Ala Gly Val Ala
 595 600 605
 Gly Pro Ala Ala Ala Leu Leu Glu Phe Thr Leu Asn Met Leu Pro Trp
 610 615 620
 Lys Thr Ala Val Gly Asp Phe Leu Ala Ser Thr Arg Leu Ser Leu Ala
 625 630 635 640
 Asp Val Ala Ala His Leu Pro Leu Val Gln His Val Leu Asp Glu Asn
 645 650 655
 Ser Leu Ile Gly Arg Leu Ala Leu Ala Lys Leu Ile Leu Val Ala Arg
 660 665 670
 Asp Val Ile Arg Glu Thr Asp Ala Phe Tyr Gly Glu Leu Ala Asp Leu
 675 680 685
 Glu Leu Gln Leu Arg Ala Ala Pro Pro Ala Asn Leu Tyr Thr Arg Leu
 690 695 700
 Gly Glu Trp Leu Leu Glu Arg Ser Gln Ala His Pro Asp Thr Leu Phe
 705 710 715 720
 Ala Pro Ala Thr Pro Thr His Pro Glu Pro Leu Leu Tyr Arg Val Gln
 725 730 735
 Ala Leu Ala Lys Phe Ala Arg Gly Glu Glu Ile Arg Val Glu Ala Glu
 740 745 750
 Asp Arg Gln Met Arg Glu Ala Leu Asp Ala Leu Ala Arg Gly Val Asp
 755 760 765
 Ala Val Ser Gln His Ala Gly Pro Leu Gly Val Met Pro Ala Pro Ala
 770 775 780
 Gly Ala Ala Pro Gln Gly Ala Pro Arg Pro Pro Pro Leu Gly Pro Glu
 785 790 795 800
 Ala Val Gln Val Arg Leu Glu Glu Val Arg Thr Gln Ala Arg Arg Ala
 805 810 815
 Ile Glu Gly Ala Val Lys Glu Tyr Phe Tyr Arg Gly Ala Val Tyr Ser
 820 825 830
 Ala Lys Ala Leu Gln Ala Ser Asp Asn Asn Asp Arg Arg Phe His Val
 835 840 845

Ala Ser Ala Ala Val Val Pro Val Val Gln Leu Leu Glu Ser Leu Pro
 850 855 860
 Val Phe Asp Gln His Thr Arg Asp Ile Ala Gln Arg Ala Ala Ile Pro
 865 870 875 880
 Ala Pro Pro Pro Ile Ala Thr Ser Pro Thr Ala Ile Leu Leu Arg Asp
 885 890 895
 Leu Ile Gln Arg Gly Gln Thr Leu Asp Ala Pro Glu Asp Leu Ala Ala
 900 905 910
 Trp Leu Ser Val Leu Thr Asp Ala Ala Asn Gln Gly Leu Ile Glu Arg
 915 920 925
 Lys Pro Leu Asp Glu Leu Ala Arg Ser Ile Arg Asp Ile Asn Asp Gln
 930 935 940
 Gln Ala Arg Arg Ser Ser Gly Leu Ala Glu Leu Arg Arg Phe Asp Ala
 945 950 955 960
 Leu Asp Ala Ala Leu Gly Gln Gln Leu Asp Ser Asp Ala Ala Phe Val
 965 970 975
 Pro Ala Pro Gly Ala Ser Pro Tyr Pro Asp Asp Gly Gly Leu Ser Pro
 980 985 990
 Glu Ala Thr Arg Met Ala Glu Glu Ala Leu Arg Gln Ala Arg Ala Met
 995 1000 1005
 Asp Ala Ala Lys Leu Thr Ala Glu Leu Ala Pro Asp Ala Arg Ala Arg
 1010 1015 1020
 Leu Arg Glu Arg Ala Arg Ser Leu Glu Ala Met Leu Glu Gly Ala Arg
 1025 1030 1035 1040
 Glu Arg Ala Lys Val Ala Arg Asp Ala Arg Glu Lys Phe Leu His Lys
 1045 1050 1055
 Leu Gln Gly Val Leu Arg Pro Leu Pro Asp Phe Val Gly Leu Lys Ala
 1060 1065 1070
 Cys Pro Ala Val Leu Ala Thr Leu Arg Ala Ser Leu Pro Ala Gly Trp
 1075 1080 1085
 Ser Asp Leu Pro Glu Ala Val Arg Gly Ala Pro Pro Glu Val Thr Ala
 1090 1095 1100
 Ala Leu Arg Ala Asp Met Trp Gly Leu Leu Gly Gln Tyr Arg Asp Ala
 1105 1110 1115 1120
 Leu Glu His Pro Thr Pro Asp Thr Ala Thr Ala Leu Ser Gly Leu His
 1125 1130 1135
 Pro Ser Phe Val Val Val Leu Lys Asn Leu Phe Ala Asp Ala Pro Glu
 1140 1145 1150
 Thr Pro Phe Leu Leu Gln Phe Phe Ala Asp His Ala Pro Ile Ile Ala
 1155 1160 1165
 His Ala Val Ser Asn Ala Ile Asn Ala Gly Ser Ala Ala Val Ala Thr

73

Gly Val Pro Ala Leu Arg Gln Tyr Val Pro Phe Phe Gln Lys Gly Tyr
 1505 1510 1515 1520
 Ala Glu Tyr Val Asp Ile Arg Asp Arg Leu Asp Ala Leu Arg Ala Asp
 1525 1530 1535
 Ala Arg Arg Ala Ile Gly Ser Val Ala Leu Asp Leu Ala Ala Ala Ala
 1540 1545 1550
 Glu Glu Ile Ser Ala Val Arg Asn Asp Pro Ala Ala Ala Ala Glu Leu
 1555 1560 1565
 Val Arg Ala Gly Val Thr Leu Pro Cys Pro Ser Glu Asp Ala Leu Val
 1570 1575 1580
 Ala Cys Val Ala Ala Leu Glu Arg Val Asp Gln Ser Pro Val Lys Asp
 1585 1590 1595 1600
 Thr Ala Tyr Ala His Tyr Val Ala Phe Val Thr Arg Gln Asp Leu Ala
 1605 1610 1615
 Asp Thr Lys Asp Ala Val Val Arg Ala Lys Gln Gln Arg Ala Glu Ala
 1620 1625 1630
 Thr Glu Arg Val Thr Ala Gly Leu Arg Glu Val Leu Ala Ala Arg Glu
 1635 1640 1645
 Arg Arg Ala Gln Leu Glu Ala Glu Gly Leu Ala Asn Leu Lys Thr Leu
 1650 1655 1660
 Leu Lys Val Val Ala Val Pro Ala Thr Val Ala Lys Thr Leu Asp Gln
 1665 1670 1675 1680
 Ala Arg Ser Ala Glu Glu Ile Ala Asp Gln Val Glu Ile Leu Val Asp
 1685 1690 1695
 Gln Thr Glu Lys Ala Arg Glu Leu Asp Val Gln Ala Val Ala Trp Leu
 1700 1705 1710
 Glu His Ala Gln Arg Thr Phe Glu Thr His Pro Leu Ser Ala Ala Ser
 1715 1720 1725
 Gly Asp Gly Pro Gly Leu Leu Thr Arg Gln Gly Ala Arg Leu Gln Ala
 1730 1735 1740
 Leu Phe Asp Thr Arg Arg Arg Val Glu Ala Leu Arg Arg Ser Leu Glu
 1745 1750 1755 1760
 Glu Ala Glu Ala Glu Trp Asp Glu Val Trp Gly Arg Phe Gly Arg Val
 1765 1770 1775
 Arg Gly Gly Ala Trp Lys Ser Pro Glu Gly Phe Arg Ala Ala Cys Glu
 1780 1785 1790
 Gln Leu Arg Ala Leu Gln Asp Thr Thr Asn Thr Val Ser Gly Leu Arg
 1795 1800 1805
 Ala Gln Arg Asp Tyr Glu Arg Leu Pro Ala Lys Tyr Gln Gly Val Leu
 1810 1815 1820

Gly Ala Lys Ser Ala Glu Arg Ala Gly Ala Val Glu Glu Leu Gly Gly
 1825 1830 1835 1840
 Arg Val Ala Gln His Ala Asp Leu Ser Ala Arg Leu Arg Asp Glu Val
 1845 1850 1855
 Val Pro Arg Val Ala Trp Glu Met Asn Phe Asp Thr Leu Gly Gly Leu
 1860 1865 1870
 Leu Ala Glu Phe Asp Ala Val Ala Gly Asp Leu Ala Pro Trp Ala Val
 1875 1880 1885
 Glu Glu Phe Arg Gly Ala Arg Glu Leu Ile Gln Arg Arg Met Gly Leu
 1890 1895 1900
 Tyr Ser Ala Tyr Ala Lys Ala Thr Gly Gln Thr Gly Ala Gly Ala Ala
 1905 1910 1915 1920
 Ala Ala Pro Ala Pro Leu Leu Val Asp Leu Arg Ala Leu Asp Ala Arg
 1925 1930 1935
 Ala Arg Ala Ser Ala Pro Pro Gly Gln Glu Ala Asp Pro Gln Met Leu
 1940 1945 1950
 Arg Arg Arg Gly Glu Ala Tyr Leu Arg Val Ser Gly Gly Pro Gly Pro
 1955 1960 1965
 Leu Val Leu Arg Glu Ala Thr Ser Thr Leu Asp Arg Pro Phe Ala Pro
 1970 1975 1980
 Ser Phe Leu Val Pro Asp Gly Thr Pro Leu Gln Tyr Ala Leu Cys Phe
 1985 1990 1995 2000
 Pro Ala Val Thr Asp Lys Leu Gly Ala Leu Leu Met Cys Pro Glu Ala
 2005 2010 2015
 Ala Cys Ile Arg Pro Pro Leu Pro Thr Asp Thr Leu Glu Ser Ala Ser
 2020 2025 2030
 Thr Val Thr Ala Met Tyr Val Leu Thr Val Ile Asn Arg Leu Gln Leu
 2035 2040 2045
 Ala Leu Ser Asp Ala Gln Ala Ala Asn Phe Gln Leu Phe Gly Arg Phe
 2050 2055 2060
 Val Arg His Arg Gln Ala Arg Trp Gly Ala Ser Met Asp Ala Ala Ala
 2065 2070 2075 2080
 Glu Leu Tyr Val Ala Leu Val Ala Thr Thr Leu Thr Arg Glu Phe Gly
 2085 2090 2095
 Cys Arg Trp Ala Gln Leu Glu Trp Gly Gly Asp Ala Ala Ala Pro Gly
 2100 2105 2110
 Pro Pro Leu Gly Pro Gln Ser Ser Thr Arg His Arg Val Ser Phe Asn
 2115 2120 2125
 Glu Asn Asp Val Leu Val Ala Leu Val Ala Ser Ser Pro Glu His Ile
 2130 2135 2140
 Tyr Thr Phe Trp Arg Leu Asp Leu Val Arg Gln His Glu Tyr Met His

2145	2150	2155	2160
Leu Thr Leu Pro Arg Ala Phe Gln Asn Ala Ala Asp Ser Met Leu Phe			
2165	2170	2175	
Val Gln Arg Leu Thr Pro His Pro Asp Ala Arg Ile Arg Val Leu Pro			
2180	2185	2190	
Ala Phe Ser Ala Gly Gly Pro Pro Thr Arg Gly Leu Met Phe Gly Thr			
2195	2200	2205	
Arg Leu Ala Asp Trp Arg Arg Gly Lys Leu Ser Glu Thr Asp Pro Leu			
2210	2215	2220	
Ala Pro Trp Arg Ser Val Pro Glu Leu Gly Thr Glu Arg Gly Ala Ala			
2225	2230	2235	2240
Leu Gly Lys Leu Ser Pro Ala Gln Ala Leu Ala Ala Val Ser Val Leu			
2245	2250	2255	
Gly Arg Met Cys Leu Pro Ser Thr Ala Leu Val Ala Leu Trp Thr Cys			
2260	2265	2270	
Met Phe Pro Asp Asp Tyr Thr Glu Tyr Asp Ser Phe Asp Ala Leu Leu			
2275	2280	2285	
Thr Ala Arg Leu Glu Ser Gly Gln Thr Leu Ser Pro Ser Gly Gly Arg			
2290	2295	2300	
Glu Ala Ser Pro Pro Ala Pro Pro Asn Ala Leu Tyr Arg Pro Thr Gly			
2305	2310	2315	2320
Gln His Val Ala Val Pro Ala Ala Ala Thr His Arg Thr Pro Ala Ala			
2325	2330	2335	
Arg Val Thr Ala Met Asp Leu Val Leu Ala Ala Val Leu Leu Gly Ala			
2340	2345	2350	
Pro Val Val Val Ala Leu Arg Asn Thr Thr Ala Phe Ser Arg Glu Ser			
2355	2360	2365	
Glu Leu Glu Leu Cys Leu Thr Leu Phe Asp Ser Arg Ala Arg Gly Pro			
2370	2375	2380	
Asp Ala Ala Leu Arg Asp Ala Val Ser Ser Asp Ile Glu Thr Trp Ala			
2385	2390	2395	2400
Val Arg Leu Leu His Ala Asp Leu Asn Pro Ile Glu Asn Ala Cys Leu			
2405	2410	2415	
Ala Ala Gln Leu Pro Arg Leu Ser Ala Leu Ile Ala Glu Arg Pro Leu			
2420	2425	2430	
Ala Arg Gly Pro Pro Cys Leu Val Leu Val Asp Ile Ser Met Thr Pro			
2435	2440	2445	
Val Ala Val Leu Trp Glu Asn Pro Asp Pro Pro Gly Pro Pro Asp Val			
2450	2455	2460	
Arg Phe Val Gly Ser Glu Ala Thr Glu Glu Leu Pro Phe Val Ala Gly			
2465	2470	2475	2480

Gly Glu Asp Val Leu Ala Ala Ser Ala Thr Asp Glu Asp Pro Phe Leu
 2485 2490 2495
 Ala Arg Ala Ile Leu Gly Arg Pro Phe Asp Ala Ser Leu Leu Ser Gly
 2500 2505 2510
 Glu Leu Phe Pro Gly His Pro Val Tyr Gln Arg Ala Pro Asp Asp Gln
 2515 2520 2525
 Ser Pro Ser Val Pro Asn Pro Thr Pro Gly Pro Val Asp Leu Val Gly
 2530 2535 2540
 Ala Glu Gly Ser Leu Gly Pro Gly Ser Leu Ala Pro Thr Leu Phe Thr
 2545 2550 2555 2560
 Asp Ala Thr Pro Gly Glu Pro Val Pro Pro Arg Met Trp Ala Trp Ile
 2565 2570 2575
 His Gly Leu Glu Glu Leu Ala Ser Asp Asp Ser Gly Gly Pro Ala Pro
 2580 2585 2590
 Leu Leu Ala Pro Asp Pro Leu Ser Pro Thr Ala Asp Gln Ser Val Pro
 2595 2600 2605
 Thr Ser Gln Cys Ala Pro Arg Pro Pro Gly Pro Ala Val Thr Ala Arg
 2610 2615 2620
 Glu Ala Arg Pro Gly Val Pro Ala Glu Ser Thr Arg Pro Ala Pro Val
 2625 2630 2635 2640
 Gly Pro Arg Asp Asp Phe Arg Arg Leu Pro Ser Pro Gln Ser Ser Pro
 2645 2650 2655
 Ala Pro Pro Asp Ala Thr Ala Pro Arg Pro Pro Ala Ser Ser Arg Ala
 2660 2665 2670
 Ser Ala Ala Ser Ser Ser Gly Ser Arg Ala Arg Arg His Arg Arg Ala
 2675 2680 2685
 Arg Ser Leu Ala Arg Ala Thr Gln Ala Ser Ala Thr Thr Gln Gly Trp
 2690 2695 2700
 Arg Pro Pro Ala Leu Pro Asp Thr Val Ala Pro Val Thr Asp Phe Ala
 2705 2710 2715 2720
 Arg Pro Pro Ala Pro Pro Lys Pro Pro Glu Pro Ala Pro His Ala Leu
 2725 2730 2735
 Val Ser Gly Val Pro Leu Pro Leu Gly Pro Gln Ala Ala Gly Gln Ala
 2740 2745 2750
 Ser Pro Ala Leu Pro Ile Asp Pro Val Pro Pro Pro Val Ala Thr Gly
 2755 2760 2765
 Thr Val Leu Pro Gly Gly Glu Asn Arg Arg Pro Pro Leu Thr Ser Gly
 2770 2775 2780
 Pro Ala Pro Thr Pro Pro Arg Val Pro Val Gly Gly Pro Gln Arg Arg
 2785 2790 2795 2800

Leu Thr Arg Pro Ala Val Ala Ser Leu Ser Glu Ser Arg Glu Ser Leu
 2805 2810 2815
 Pro Ser Pro Trp Asp Pro Ala Asp Pro Thr Ala Pro Val Leu Gly Arg
 2820 2825 2830
 Asn Pro Ala Glu Pro Thr Ser Ser Ser Pro Ala Gly Pro Ser Pro Pro
 2835 2840 2845
 Pro Pro Ala Val Gln Pro Val Ala Pro Pro Pro Thr Ser Gly Pro Pro
 2850 2855 2860
 Pro Thr Tyr Leu Thr Leu Glu Gly Gly Val Ala Pro Gly Gly Pro Val
 2865 2870 2875 2880
 Ser Arg Arg Pro Thr Thr Arg Gln Pro Val Ala Thr Pro Thr Thr Ser
 2885 2890 2895
 Ala Arg Pro Arg Gly His Leu Thr Val Ser Arg Leu Ser Ala Pro Gln
 2900 2905 2910
 Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln
 2915 2920 2925
 Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln
 2930 2935 2940
 Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln
 2945 2950 2955 2960
 Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln
 2965 2970 2975
 Pro Gln Pro Gln Asn Gly His Val Ala Pro Gly Glu Tyr Pro Ala Val
 2980 2985 2990
 Arg Phe Arg Ala Pro Gln Asn Arg Pro Ser Val Pro Ala Ser Ala Ser
 2995 3000 3005
 Ser Thr Asn Pro Arg Thr Gly Ser Ser Leu Ser Gly Val Ser Ser Trp
 3010 3015 3020
 Ala Ser Ser Leu Ala Leu His Ile Asp Ala Thr Pro Pro Pro Val Ser
 3025 3030 3035 3040
 Leu Leu Gln Thr Leu Tyr Val Ser Asp Asp Glu Asp Ser Asp Ala Thr
 3045 3050 3055
 Ser Leu Phe Leu Ser Asp Ser Glu Ala Glu Ala Leu Asp Pro Leu Pro
 3060 3065 3070
 Gly Glu Pro His Ser Pro Ile Thr Asn Glu Pro Phe Ser Ala Leu Ser
 3075 3080 3085
 Ala Asp Asp Ser Gln Glu Val Thr Arg Leu Gln Phe Gly Pro Pro Pro
 3090 3095 3100
 Val Ser Ala Asn Ala Val Leu Ser Arg Arg Tyr Val Gln Arg Thr Gly
 3105 3110 3115 3120
 Arg Ser Ala Leu Ala Val Leu Ile Arg Ala Cys Tyr Arg Leu Gln Gln

100					105					110					
Val	Lys	Thr	Phe	Arg	Arg	Val	Gln	Gly	Ala	Ser	Glu	His	Thr	His	Gly
		115					120					125			
Arg	Leu	Cys	Glu	Ala	Val	Gly	Leu	Ser	Gly	Gly	Val	Leu	Ser	Gln	Thr
	130					135					140				
Leu	Ala	Arg	Ile	Met	Gly	Pro	Ala	Val	Pro	Thr	Glu	His	Leu	Ala	Ser
145					150					155					160
Leu	Arg	Arg	Ala	Leu	Val	Gly	Glu	Phe	Glu	Thr	Ala	Glu	Arg	Arg	Phe
			165						170					175	
Ser	Ser	Gly	Gln	Pro	Ser	Leu	Leu	Arg	Glu	Thr	Ala	Leu	Ile	Trp	Ile
			180					185						190	
Asp	Val	Tyr	Gly	Gln	Thr	His	Trp	Asp	Ile	Thr	Pro	Thr	Thr	Pro	Ala
	195						200					205			
Thr	Pro	Leu	Ser	Ala	Leu	Leu	Pro	Val	Gly	Gln	Pro	Ser	His	Ala	Pro
	210					215					220				
Ser	Val	His	Leu	Ala	Ala	Ala	Thr	Gln	Ile	Arg	Phe	Pro	Ala	Leu	Glu
225				230						235					240
Gly	Ile	His	Pro	Asn	Val	Leu	Ala	Asp	Pro	Gly	Phe	Val	Pro	Tyr	Val
			245						250					255	
Leu	Ala	Leu	Val	Val	Gly	Asp	Ala	Leu	Arg	Ala	Thr	Cys	Ser	Ala	Ala
		260						265					270		
Tyr	Leu	Pro	Arg	Pro	Val	Glu	Phe	Ala	Leu	Arg	Val	Leu	Ala	Trp	Ala
	275						280						285		
Arg	Asp	Phe	Gly	Leu	Gly	Tyr	Leu	Pro	Thr	Val	Glu	Gly	His	Arg	Thr
	290					295					300				
Lys	Leu	Gly	Ala	Leu	Ile	Thr	Leu	Leu	Glu	Pro	Ala	Ala	Arg	Gly	Gly
305				310						315					320
Leu	Gly	Pro	Thr	Met	Gln	Met	Ala	Asp	Asn	Ile	Glu	Gln	Leu	Leu	Arg
			325						330					335	
Glu	Leu	Tyr	Val	Ile	Ser	Arg	Gly	Ala	Val	Glu	Gln	Leu	Arg	Pro	Leu
		340						345					350		
Val	Gln	Leu	Gln	Pro	Pro	Pro	Pro	Pro	Glu	Val	Gly	Thr	Ser	Leu	Leu
		355					360					365			
Leu	Ile	Ser	Met	Tyr	Ala	Leu	Ala								
	370					375									

<210> 75
 <211> 1083
 <212> DNA
 <213> Herpes Virus

<400> 75
 ctgattcgcc aactggagga cgccatcggtg ctgctgcggc tgcacatgcg cagcgtctcc 60


```

gcctttttcg agtgtcggtt cgagagcgac gggcgccgcc tgtatgcggt ggtcggggac 120
acgcccgaacc gctgggggcc ctggccccc gaggccatgg gggacgcggt gagtcagtac 180
tgcagcatgt atcacgacgc caagcgcgcg ctggtcgctt cctcgcgag cctgcgttcc 240
gtcatcaccg aaaccacggc gcacctgggg gtgtgcgacg agctggcggc ccaggtgtcg 300
cacgaggaca acgtgctggc cgtgggtccg cgcgaaattc acgggtttct gtccgtcgtg 360
tccggcattc acgcccgggc gtcgaaactg ctgtcgggag accaggtccc cgggttttgc 420
ttcatgggtc agtttctagc gcgtggtggc cgtctgtcgg cctgctatca agccgcgcgc 480
gcgcccgcgg gacccgagcc cgtggccgag tttgtccagg aactccacga cacgtggaag 540
ggcctgcaga cggagcgcg cgtgggtcgt gcgcccttgg tcagctcggc cgaccagcgc 600
gccgcggcca tccgagaggt aatggcgcat gcgcccagag acgccccccc gcaaagcccc 660
gcgcccgacc gcgtcgtgct tacgagccgt cgcgacctag gggcctgggg ggactacagc 720
ctcgccccc tgggcccagac gaccgcggtt ccggactccg tggatctgtc tcgccagggg 780
ctggccgtta cgtgagtat ggattgggta ctgatgaacg agtcctgcg ggtcaccgac 840
ggcgtgtttc gcgttccgc gtttcgtccg ttagccggac cggagtctcc cagggacctg 900
gaggtccgcg acgcccgaaa cagtctcccc gcgcctatgc ccatggacgc acagaagccg 960
gagggctatg ggcacggccc acgccaggcg gaccgcgagg gggcgccctc ttccaacacc 1020
cccgtcgagg acgacgagat gatcccggag gacaccgtcg cgccaccac ggacttgccg 1080
tta
1083

```

<210> 76
 <211> 361
 <212> PRT
 <213> Herpes Virus

```

<400> 76
Leu Ile Arg Gln Leu Glu Asp Ala Ile Val Leu Leu Arg Leu His Met
 1             5             10             15

Arg Thr Leu Ser Ala Phe Phe Glu Cys Arg Phe Glu Ser Asp Gly Arg
          20             25             30

Arg Leu Tyr Ala Val Val Gly Asp Thr Pro Asp Arg Leu Gly Pro Trp
 35             40             45

Pro Pro Glu Ala Met Gly Asp Ala Val Ser Gln Tyr Cys Ser Met Tyr
 50             55             60

His Asp Ala Lys Arg Ala Leu Val Ala Ser Leu Ala Ser Leu Arg Ser
 65             70             75             80

Val Ile Thr Glu Thr Thr Ala His Leu Gly Val Cys Asp Glu Leu Ala
          85             90             95

Ala Gln Val Ser His Glu Asp Asn Val Leu Ala Val Val Arg Arg Glu
          100             105             110

Ile His Gly Phe Leu Ser Val Val Ser Gly Ile His Ala Arg Ala Ser
          115             120             125

Lys Leu Leu Ser Gly Asp Gln Val Pro Gly Phe Cys Phe Met Gly Gln
          130             135             140

Phe Leu Ala Arg Trp Arg Arg Leu Ser Ala Cys Tyr Gln Ala Ala Arg
          145             150             155             160

Ala Ala Ala Gly Pro Glu Pro Val Ala Glu Phe Val Gln Glu Leu His
          165             170             175

Asp Thr Trp Lys Gly Leu Gln Thr Glu Arg Ala Val Val Val Ala Pro
          180             185             190

```

Leu Val Ser Ser Ala Asp Gln Arg Ala Ala Ala Ile Arg Glu Val Met
 195 200 205
 Ala His Ala Pro Glu Asp Ala Pro Pro Gln Ser Pro Ala Ala Asp Arg
 210 215 220
 Val Val Leu Thr Ser Arg Arg Asp Leu Gly Ala Trp Gly Asp Tyr Ser
 225 230 235 240
 Leu Gly Pro Leu Gly Gln Thr Thr Ala Val Pro Asp Ser Val Asp Leu
 245 250 255
 Ser Arg Gln Gly Leu Ala Val Thr Leu Ser Met Asp Trp Leu Leu Met
 260 265 270
 Asn Glu Leu Leu Arg Val Thr Asp Gly Val Phe Arg Ala Ser Ala Phe
 275 280 285
 Arg Pro Leu Ala Gly Pro Glu Ser Pro Arg Asp Leu Glu Val Arg Asp
 290 295 300
 Ala Gly Asn Ser Leu Pro Ala Pro Met Pro Met Asp Ala Gln Lys Pro
 305 310 315 320
 Glu Ala Tyr Gly His Gly Pro Arg Gln Ala Asp Arg Glu Gly Ala Pro
 325 330 335
 His Ser Asn Thr Pro Val Glu Asp Asp Glu Met Ile Pro Glu Asp Thr
 340 345 350
 Val Ala Pro Pro Thr Asp Leu Pro Leu
 355 360

<210> 77

<211> 3372

<212> DNA

<213> Herpes Virus

<400> 77

atggcagacc gcggtctccc gtccgaggcc cccgtcgtca cgacctcacc cgccgggtccg 60
 ccctcggacg gacctatgca ggcctattg gcgagcctag ccggccttcg ccaaccgcca 120
 acccccacgg ccgagacggc aaacggggcg gacgaccgg cgtttctggc caccggccaag 180
 ctgcgcgccg ccatggcggc gtttctgttg tcgggaacgg ccatcgcccc ggcagacgcg 240
 cgggactgct ggcggccgct gctggaacac ctgtgcgcgc tccaccgggc ccacgggctt 300
 ccggagacgg cgctcttggc cgagaacctc cccgggttgc tcgtacaccg cttggtggtg 360
 gctctccccg agggccccga ccaggccttc cgggagatgg aggtcatcaa ggacaccatc 420
 ctgcgcgtca ccggctccga cacgtcccac gcgctggatt ccgcccggct gcgcaccgcg 480
 gcggccctgg ggccgggtccg cgtccgccag tgcgccgtgg agtggataga ccgctggcaa 540
 accgtcacca agagctgctt ggccatgagc ccgcggaact ccatcgaggc ccttggggag 600
 acgtcgctca agatggcgcc ggtcccgttg gggcagccca gcgcgaacct taccaccccg 660
 gcgtacagcc tgctcttccc cgccccgttc gtgcaagagg gcctccgggt cttggccctg 720
 gtgagtaact gggtgacgct gttctcggcg caccctccag gcatagacga cgcgaccctc 780
 actccccca caccggccct ctttacgttg gccctggttg acgagtacct gacgaccccc 840
 gagcgggggg ctgtggtccc gccgccccgt ttggcgagcgt ttcagcacac cgtgcgggag 900
 atcgaccgg ccataatgat tccgccgctc gaggccaaca agatggttcg cagccgcgag 960
 gaggtgcgcg tgctgacggc cctcagccgc gtcagccgcg gctcggcctg tgcgcccccg 1020
 gggacgctaa tggcgcgcggt gcggacggac gtggccgtgt ttgatcccga cgtgccgttc 1080
 ctgagttcgt cggcactggc agtcttccag cctgccgtct ccagcctgct gcagctcggg 1140
 gaggagccct ccgccggcgc ccagcagcgg ctgctggctc tgctgcagca gacgtggagc 1200

```

ttgatccaga ataccaattc gccctccgtg gtgatcaaca ccctgatcga cgctgggttc 1260
acgcccctgc actgcacgca ctacctttcg gccctggagg ggtttctggc ggccggcgctc 1320
cccgcgcgga cgcaccacgg ccacggactc ggcgaagtcc agcagctctt tgggtgcatt 1380
gccctcgcgg ggtcgaacgt gtttgggttg gcgcgggaat acgggtacta tgccaactac 1440
gtaaaaactt tcaggcgggt ccaggcgccc agcgagcaca cgcacgggag gctctgcgag 1500
gcggtcggcc tgcggggggg cgttctaagc cagacgctgg cgcgtatcat gggtcgggcc 1560
gtgccgacgg aacatctggc gagcctgcgg cgggcgctcg tgggggagtt tgagacggcc 1620
gagcgccgct ttagttccgg tcaaccagc cttctccgag agacggcgct catctggatc 1680
gacgtgtatg gtcagacca ctgggacatc acccccacca ccccgccac gccctgtctc 1740
gcgcttctcc ccgtcgggca gcccgccac gcccctctg tccacctggc cgcgcgcacc 1800
cagatccgct tccccgcct cgagggcatt caccacaacg tcctcgccga cccgggcttc 1860
gtccccctacg ttctggccct ggtggtcggg gacgcgctga gggccacgtg tagcgcgcc 1920
taccttcccc gcccggtcga gttcgccctg cgtgtgttg cctgggcccg ggactttggg 1980
ctgggctatc tccccacggg tgagggccat cgcaccaaac tgggcgcgct gatcacctc 2040
ctcgaaccgg ccgcccgggg cggcctcggc cccactatgc agatggccga caacatagag 2100
cagctgtctc gggagctgta cgtgatctcc aggggtgccc tcgagcagct gcggcccctg 2160
gtccagctgc agcccccccc gcccccgag gtgggcacca gcctcctgtt gattagcatg 2220
tacgcccctg ccgcccgggg ggtgctgcag gacctcgccg agcgcgcaga ccccctgatt 2280
cgccaactgg aggacgccc cgtgctgctg cggctgcaca tgcgcacgct ctccgccttt 2340
ttcgagtgtc ggttcgagag cgacgggcgc cgcctgtatg cgggtggtcgg ggacacgccc 2400
gaccgcctgg gccctggcc ccccgaggcc atgggggacg cggtgagtca gtactgcagc 2460
atgtatcacg acgccaagcg cgcgctggtc gcgtccctcg cgagcctgcg ttccgtcatc 2520
accgaaacca cggcgcacct gggggtgtgc gacgagctgg cggcccaggt gtcgcacgag 2580
gacaacgtgc tggccgtggt ccggcgcgaa attcacgggt ttctgtccgt cgtgtccggc 2640
attcacgccc gggcgtcgaa gctgctgctg ggagaccagg tccccgggtt ttgcttcatt 2700
ggtcagtttc tagcgcgctg gcggcgtctg tcggcctgct atcaagccgc gcgcgcggcc 2760
gcgggacccg agcccgtggc cgagtttgc caggaaactcc acgacacgtg gaagggcctg 2820
cagacggagc gcgcgctggt cgtggcgccc ttggtcagct cggccgacca gcgcgcgcg 2880
gccatccgag aggtaatggc gcatgcgccc gaggacgccc ccccgcaaag cccgcgcg 2940
gaccgcgtcg tgcttacgag ccgtcgcgac ctaggggcct ggggggacta cagcctcggc 3000
cccctggggc agacgacgac ggttccggac tccgtggatc tgtctcgcca ggggctggcc 3060
gttacgctga gtatggattg gttactgatg aacgagctcc tgcgggtcac cgacggcgctg 3120
tttcgcgctt ccgcgtttcg tccgttagcc ggaccggagt ctcccaggga cctggaggctc 3180
cgcgacgccc gaaacagtct ccccgcgcc cgtgcccagc acgcacagaa gccggaggcc 3240
tatggggcacg gccacgcca ggcggaccgc gagggggcgc ctattccaa caccctcgtc 3300
gaggacgacg agatgatccc ggaggacacc gtcgcgccac ccacggactt gccgttaact 3360
agttaccaat aa 3372

```

<210> 78
 <211> 1123
 <212> PRT
 <213> Herpes Virus

<400> 78
 Met Ala Asp Arg Gly Leu Pro Ser Glu Ala Pro Val Val Thr Thr Ser
 1 5 10 15
 Pro Ala Gly Pro Pro Ser Asp Gly Pro Met Gln Arg Leu Leu Ala Ser
 20 25 30
 Leu Ala Gly Leu Arg Gln Pro Pro Thr Pro Thr Ala Glu Thr Ala Asn
 35 40 45
 Gly Ala Asp Asp Pro Ala Phe Leu Ala Thr Ala Lys Leu Arg Ala Ala
 50 55 60
 Met Ala Ala Phe Leu Leu Ser Gly Thr Ala Ile Ala Pro Ala Asp Ala
 65 70 75 80
 Arg Asp Cys Trp Arg Pro Leu Leu Glu His Leu Cys Ala Leu His Arg

Asp Ala Gly Phe Thr Pro Ser His Cys Thr His Tyr Leu Ser Ala Leu
 420 425 430
 Glu Gly Phe Leu Ala Ala Gly Val Pro Ala Arg Thr Pro Thr Gly His
 435 440 445
 Gly Leu Gly Glu Val Gln Gln Leu Phe Gly Cys Ile Ala Leu Ala Gly
 450 455 460
 Ser Asn Val Phe Gly Leu Ala Arg Glu Tyr Gly Tyr Tyr Ala Asn Tyr
 465 470 475 480
 Val Lys Thr Phe Arg Arg Val Gln Gly Ala Ser Glu His Thr His Gly
 485 490 495
 Arg Leu Cys Glu Ala Val Gly Leu Ser Gly Gly Val Leu Ser Gln Thr
 500 505 510
 Leu Ala Arg Ile Met Gly Pro Ala Val Pro Thr Glu His Leu Ala Ser
 515 520 525
 Leu Arg Arg Ala Leu Val Gly Glu Phe Glu Thr Ala Glu Arg Arg Phe
 530 535 540
 Ser Ser Gly Gln Pro Ser Leu Leu Arg Glu Thr Ala Leu Ile Trp Ile
 545 550 555 560
 Asp Val Tyr Gly Gln Thr His Trp Asp Ile Thr Pro Thr Thr Pro Ala
 565 570 575
 Thr Pro Leu Ser Ala Leu Leu Pro Val Gly Gln Pro Ser His Ala Pro
 580 585 590
 Ser Val His Leu Ala Ala Ala Thr Gln Ile Arg Phe Pro Ala Leu Glu
 595 600 605
 Gly Ile His Pro Asn Val Leu Ala Asp Pro Gly Phe Val Pro Tyr Val
 610 615 620
 Leu Ala Leu Val Val Gly Asp Ala Leu Arg Ala Thr Cys Ser Ala Ala
 625 630 635 640
 Tyr Leu Pro Arg Pro Val Glu Phe Ala Leu Arg Val Leu Ala Trp Ala
 645 650 655
 Arg Asp Phe Gly Leu Gly Tyr Leu Pro Thr Val Glu Gly His Arg Thr
 660 665 670
 Lys Leu Gly Ala Leu Ile Thr Leu Leu Glu Pro Ala Ala Arg Gly Gly
 675 680 685
 Leu Gly Pro Thr Met Gln Met Ala Asp Asn Ile Glu Gln Leu Leu Arg
 690 695 700
 Glu Leu Tyr Val Ile Ser Arg Gly Ala Val Glu Gln Leu Arg Pro Leu
 705 710 715 720
 Val Gln Leu Gln Pro Pro Pro Pro Glu Val Gly Thr Ser Leu Leu
 725 730 735

Leu Ile Ser Met Tyr Ala Leu Ala Ala Arg Gly Val Leu Gln Asp Leu
 740 745 750
 Ala Glu Arg Ala Asp Pro Leu Ile Arg Gln Leu Glu Asp Ala Ile Val
 755 760 765
 Leu Leu Arg Leu His Met Arg Thr Leu Ser Ala Phe Phe Glu Cys Arg
 770 775 780
 Phe Glu Ser Asp Gly Arg Arg Leu Tyr Ala Val Val Gly Asp Thr Pro
 785 790 795 800
 Asp Arg Leu Gly Pro Trp Pro Pro Glu Ala Met Gly Asp Ala Val Ser
 805 810 815
 Gln Tyr Cys Ser Met Tyr His Asp Ala Lys Arg Ala Leu Val Ala Ser
 820 825 830
 Leu Ala Ser Leu Arg Ser Val Ile Thr Glu Thr Thr Ala His Leu Gly
 835 840 845
 Val Cys Asp Glu Leu Ala Ala Gln Val Ser His Glu Asp Asn Val Leu
 850 855 860
 Ala Val Val Arg Arg Glu Ile His Gly Phe Leu Ser Val Val Ser Gly
 865 870 875 880
 Ile His Ala Arg Ala Ser Lys Leu Leu Ser Gly Asp Gln Val Pro Gly
 885 890 895
 Phe Cys Phe Met Gly Gln Phe Leu Ala Arg Trp Arg Arg Leu Ser Ala
 900 905 910
 Cys Tyr Gln Ala Ala Arg Ala Ala Ala Gly Pro Glu Pro Val Ala Glu
 915 920 925
 Phe Val Gln Glu Leu His Asp Thr Trp Lys Gly Leu Gln Thr Glu Arg
 930 935 940
 Ala Val Val Val Ala Pro Leu Val Ser Ser Ala Asp Gln Arg Ala Ala
 945 950 955 960
 Ala Ile Arg Glu Val Met Ala His Ala Pro Glu Asp Ala Pro Pro Gln
 965 970 975
 Ser Pro Ala Ala Asp Arg Val Val Leu Thr Ser Arg Arg Asp Leu Gly
 980 985 990
 Ala Trp Gly Asp Tyr Ser Leu Gly Pro Leu Gly Gln Thr Thr Ala Val
 995 1000 1005
 Pro Asp Ser Val Asp Leu Ser Arg Gln Gly Leu Ala Val Thr Leu Ser
 1010 1015 1020
 Met Asp Trp Leu Leu Met Asn Glu Leu Leu Arg Val Thr Asp Gly Val
 1025 1030 1035 1040
 Phe Arg Ala Ser Ala Phe Arg Pro Leu Ala Gly Pro Glu Ser Pro Arg
 1045 1050 1055
 Asp Leu Glu Val Arg Asp Ala Gly Asn Ser Leu Pro Ala Pro Met Pro

1060 1065 1070
 Met Asp Ala Gln Lys Pro Glu Ala Tyr Gly His Gly Pro Arg Gln Ala
 1075 1080 1085
 Asp Arg Glu Gly Ala Pro His Ser Asn Thr Pro Val Glu Asp Asp Glu
 1090 1095 1100
 Met Ile Pro Glu Asp Thr Val Ala Pro Pro Thr Asp Leu Pro Leu Thr
 1105 1110 1115 1120
 Ser Tyr Gln

<210> 79
 <211> 1401
 <212> DNA
 <213> Herpes Virus

<400> 79
 ttgttcggga tgatgaagtt tgccacaca caccatctgg tcaagcgccg gggccttggg 60
 gccccggccg ggtacttcac cccattgcc gtggacctgt ggaacgtcat gtacacgttg 120
 gtggtcaaat atcagcgccg atacccagc tacgaccgag aggccattac gctacactgc 180
 ctctgtcgct tattaaaggt gttacccaa aagtcccttt tccccatctt cgttaccgat 240
 cgcggggtca attgtatgga gccggttggtg tttggagcca aggccatcct ggcccgcacg 300
 acggcccagt gccggacgga cgaggaggcc agtgacgtgg acgcctctcc accgccttcc 360
 cccatcacgg actccagacc cagctctgcc tttccaaca tgcgccggcg cggcacctct 420
 ctggcctcgg ggacccgggg gacggccggg tccggagccg cgctgccgtc cgccgcgccc 480
 tcgaagccgg ccctgcgtct ggcgcatctg ttctgtattc gcgttctccg ggccctgggg 540
 tacgcctaca ttaactcggg tcagctggag gccgacgatg cctgcgcaa cctctatcac 600
 accaacacgg tcgcgtacgt gtacaccacg gacactgacc tcctgttgat gggtgtgat 660
 attgtgttgg atattagcgc ctgctacatt cccacgatca actgtcgcga tatactaaag 720
 tactttaaga tgagctaccc ccagttcctg gccctctttg tccgctgcca caccgacctc 780
 catccaata acacctacgc ctccgtggag gatgtgctgc gcgaatgtca ctggaccccc 840
 ccgagtcgct ctcagaccgg gccggccatc cgccgggaac acaccagctc gcgctccacg 900
 gaaaccaggc cccctctgcc gccggccgcc ggcggcaccg agacgcgcgt ctcgtggacc 960
 gaaattctaa cccaacagat cgccggcgga tacgaagacg acgaggacct ccccctggat 1020
 ccccgggacg ttaccggggg ccacccgggc cccaggtcgt cctcctcgga gatactcacc 1080
 ccgcccagag tcgtccaggt cccgaacgcg cagctgctgg aagagcaccg cagttatgtg 1140
 gccaaaccgc gacgccaggt catccacgac gcccagagt ccctggactg gctccccgat 1200
 cccatgacca tcaccgagct ggtggaacac cgctacatta agtacgtcat atcgcttacc 1260
 ggccccaaag agcgggggcc gtggactctt ctgaaacgcc tgcctatcta ccaggacatc 1320
 cgcgacgaaa acctggcgcg atctatcgtg acccggcata tcacggcccc tgatatcgcc 1380
 gacaggtttc tggagcagtt g 1401

<210> 80
 <211> 467
 <212> PRT
 <213> Herpes Virus

<400> 80
 Leu Phe Gly Met Met Lys Phe Ala His Thr His His Leu Val Lys Arg
 1 5 10 15
 Arg Gly Leu Gly Ala Pro Ala Gly Tyr Phe Thr Pro Ile Ala Val Asp
 20 25 30
 Leu Trp Asn Val Met Tyr Thr Leu Val Val Lys Tyr Gln Arg Arg Tyr
 35 40 45

Pro Ser Tyr Asp Arg Glu Ala Ile Thr Leu His Cys Leu Cys Arg Leu
 50 55 60
 Leu Lys Val Phe Thr Gln Lys Ser Leu Phe Pro Ile Phe Val Thr Asp
 65 70 75 80
 Arg Gly Val Asn Cys Met Glu Pro Val Val Phe Gly Ala Lys Ala Ile
 85 90 95
 Leu Ala Arg Thr Thr Ala Gln Cys Arg Thr Asp Glu Glu Ala Ser Asp
 100 105 110
 Val Asp Ala Ser Pro Pro Pro Ser Pro Ile Thr Asp Ser Arg Pro Ser
 115 120 125
 Ser Ala Phe Ser Asn Met Arg Arg Arg Gly Thr Ser Leu Ala Ser Gly
 130 135 140
 Thr Arg Gly Thr Ala Gly Ser Gly Ala Ala Leu Pro Ser Ala Ala Pro
 145 150 155 160
 Ser Lys Pro Ala Leu Arg Leu Ala His Leu Phe Cys Ile Arg Val Leu
 165 170 175
 Arg Ala Leu Gly Tyr Ala Tyr Ile Asn Ser Gly Gln Leu Glu Ala Asp
 180 185 190
 Asp Ala Cys Ala Asn Leu Tyr His Thr Asn Thr Val Ala Tyr Val Tyr
 195 200 205
 Thr Thr Asp Thr Asp Leu Leu Leu Met Gly Cys Asp Ile Val Leu Asp
 210 215 220
 Ile Ser Ala Cys Tyr Ile Pro Thr Ile Asn Cys Arg Asp Ile Leu Lys
 225 230 235 240
 Tyr Phe Lys Met Ser Tyr Pro Gln Phe Leu Ala Leu Phe Val Arg Cys
 245 250 255
 His Thr Asp Leu His Pro Asn Asn Thr Tyr Ala Ser Val Glu Asp Val
 260 265 270
 Leu Arg Glu Cys His Trp Thr Pro Pro Ser Arg Ser Gln Thr Arg Arg
 275 280 285
 Ala Ile Arg Arg Glu His Thr Ser Ser Arg Ser Thr Glu Thr Arg Pro
 290 295 300
 Pro Leu Pro Pro Ala Ala Gly Gly Thr Glu Thr Arg Val Ser Trp Thr
 305 310 315 320
 Glu Ile Leu Thr Gln Gln Ile Ala Gly Gly Tyr Glu Asp Asp Glu Asp
 325 330 335
 Leu Pro Leu Asp Pro Arg Asp Val Thr Gly Gly His Pro Gly Pro Arg
 340 345 350
 Ser Ser Ser Ser Glu Ile Leu Thr Pro Pro Glu Leu Val Gln Val Pro
 355 360 365

Asn Ala Gln Leu Leu Glu Glu His Arg Ser Tyr Val Ala Asn Pro Arg
 370 375 380
 Arg His Val Ile His Asp Ala Pro Glu Ser Leu Asp Trp Leu Pro Asp
 385 390 395 400
 Pro Met Thr Ile Thr Glu Leu Val Glu His Arg Tyr Ile Lys Tyr Val
 405 410 415
 Ile Ser Leu Ile Gly Pro Lys Glu Arg Gly Pro Trp Thr Leu Leu Lys
 420 425 430
 Arg Leu Pro Ile Tyr Gln Asp Ile Arg Asp Glu Asn Leu Ala Arg Ser
 435 440 445
 Ile Val Thr Arg His Ile Thr Ala Pro Asp Ile Ala Asp Arg Phe Leu
 450 455 460
 Glu Gln Leu
 465

<210> 81
 <211> 1470
 <212> DNA
 <213> Herpes Virus

<400> 81
 atgggtttgt tccggatgat gaagtttgcc cacacacacc atctgggtcaa gcgccggggc 60
 cttggggccc cggccgggta cttcaccccc attgccgtgg acctgtggaa cgtcatgtac 120
 acgttgggtg tcaaatatca gcgccgatac ccagttacg accgcgaggc cattacgcta 180
 cactgcctct gtcgcttatt aaaggtgttt acccaaaagt cccttttccc catcttcgtt 240
 accgatcgcg ggggtcaattg tatggagccg gttgtgtttg gagccaaggc catcctggcc 300
 cgcacgacgg ccagtgccg gacggacgag gaggccagtg acgtggacgc ctctccaccg 360
 ccttccccc tcaccgactc cagaccacgc tctgcctttt ccaacatgcg ccggcgcggc 420
 acctctctgg cctcggggac ccgggggacg gccgggtccg gagccgcgct gccgtccgcc 480
 gcgccctcga agccggccct gcgtctggcg catctgttct gtattcgcgt tctccgggcc 540
 ctggggtaacg cctacattaa ctcggtcag ctggaggcgg acgatgcctg cgccaacctc 600
 tatcacacca acacggtcgc gtacgtgtac accacggaca ctgacctcct gttgatgggc 660
 tgtgatattg tggttgatat tagcgcctgc tacattcca cgatcaactg tcgcatata 720
 ctaaaagtact ttaagatgag ctacccccag ttcttgggcc tctttgtccg ctgccacacc 780
 gacctccatc ccaataacac ctacgcctcc gtggaggatg tgctgcgcga atgtcactgg 840
 acccccccga gtcgctctca gaccggcgcg gccatccgcc gggaacacac cagctcgcgc 900
 tccacggaaa ccaggcccc tctgccgcgg gccgccggcg gcaccgagac gcgcgtctcg 960
 tggaccgaaa ttctaaccac acagatcgcc ggccgatacg aagacgacga ggacctcccc 1020
 ctggatcccc gggacgttac cggggggcac ccgggcccc ggtcgtcctc ctccggagata 1080
 ctcaccccg cagagctcgt ccaggtccc aacgcgcagc tgctggaaga gcaccgagt 1140
 tatgtggcca accgcgacg ccacgtcatc cagcagccc cagagtcctt ggactggctc 1200
 cccgatccca tgaccatcac cgagctggtg gaacaccgct acattaagta cgtcatatcg 1260
 cttatcgccc ccaaggagcg ggggccgtgg actcttctga aacgcctgcc tatctaccag 1320
 gacatccgcg acgaaaacct ggcgcgatct atcgtgaccc ggcatacac ggccctgat 1380
 atcgccgaca ggtttctgga gcagttgcgg acccaggccc cccaccgcg gttctacaag 1440
 gacgtcctgg ccaaattctg ggacgagtag 1470

<210> 82
 <211> 489
 <212> PRT
 <213> Herpes Virus
 <400> 82

Met Gly Leu Phe Gly Met Met Lys Phe Ala His Thr His His Leu Val
1 5 10 15
Lys Arg Arg Gly Leu Gly Ala Pro Ala Gly Tyr Phe Thr Pro Ile Ala
20 25 30
Val Asp Leu Trp Asn Val Met Tyr Thr Leu Val Val Lys Tyr Gln Arg
35 40 45
Arg Tyr Pro Ser Tyr Asp Arg Glu Ala Ile Thr Leu His Cys Leu Cys
50 55 60
Arg Leu Leu Lys Val Phe Thr Gln Lys Ser Leu Phe Pro Ile Phe Val
65 70 75 80
Thr Asp Arg Gly Val Asn Cys Met Glu Pro Val Val Phe Gly Ala Lys
85 90 95
Ala Ile Leu Ala Arg Thr Thr Ala Gln Cys Arg Thr Asp Glu Glu Ala
100 105 110
Ser Asp Val Asp Ala Ser Pro Pro Pro Ser Pro Ile Thr Asp Ser Arg
115 120 125
Pro Ser Ser Ala Phe Ser Asn Met Arg Arg Arg Gly Thr Ser Leu Ala
130 135 140
Ser Gly Thr Arg Gly Thr Ala Gly Ser Gly Ala Ala Leu Pro Ser Ala
145 150 155 160
Ala Pro Ser Lys Pro Ala Leu Arg Leu Ala His Leu Phe Cys Ile Arg
165 170 175
Val Leu Arg Ala Leu Gly Tyr Ala Tyr Ile Asn Ser Gly Gln Leu Glu
180 185 190
Ala Asp Asp Ala Cys Ala Asn Leu Tyr His Thr Asn Thr Val Ala Tyr
195 200 205
Val Tyr Thr Thr Asp Thr Asp Leu Leu Leu Met Gly Cys Asp Ile Val
210 215 220
Leu Asp Ile Ser Ala Cys Tyr Ile Pro Thr Ile Asn Cys Arg Asp Ile
225 230 235 240
Leu Lys Tyr Phe Lys Met Ser Tyr Pro Gln Phe Leu Ala Leu Phe Val
245 250 255
Arg Cys His Thr Asp Leu His Pro Asn Asn Thr Tyr Ala Ser Val Glu
260 265 270
Asp Val Leu Arg Glu Cys His Trp Thr Pro Pro Ser Arg Ser Gln Thr
275 280 285
Arg Arg Ala Ile Arg Arg Glu His Thr Ser Ser Arg Ser Thr Glu Thr
290 295 300
Arg Pro Pro Leu Pro Pro Ala Ala Gly Gly Thr Glu Thr Arg Val Ser
305 310 315 320
Trp Thr Glu Ile Leu Thr Gln Gln Ile Ala Gly Gly Tyr Glu Asp Asp

	325		330		335
Glu Asp Leu Pro Leu Asp Pro Arg Asp Val Thr Gly Gly His Pro Gly					
	340		345		350
Pro Arg Ser Ser Ser Ser Glu Ile Leu Thr Pro Pro Glu Leu Val Gln					
	355		360		365
Val Pro Asn Ala Gln Leu Leu Glu Glu His Arg Ser Tyr Val Ala Asn					
	370		375		380
Pro Arg Arg His Val Ile His Asp Ala Pro Glu Ser Leu Asp Trp Leu					
	385		390		400
Pro Asp Pro Met Thr Ile Thr Glu Leu Val Glu His Arg Tyr Ile Lys					
		405	410		415
Tyr Val Ile Ser Leu Ile Gly Pro Lys Glu Arg Gly Pro Trp Thr Leu					
	420		425		430
Leu Lys Arg Leu Pro Ile Tyr Gln Asp Ile Arg Asp Glu Asn Leu Ala					
	435		440		445
Arg Ser Ile Val Thr Arg His Ile Thr Ala Pro Asp Ile Ala Asp Arg					
	450		455		460
Phe Leu Glu Gln Leu Arg Thr Gln Ala Pro Pro Pro Ala Phe Tyr Lys					
	465		470		475
					480
Asp Val Leu Ala Lys Phe Trp Asp Glu					
	485				

<210> 83
 <211> 1257
 <212> DNA
 <213> Herpes Virus

<400> 83
 gtgacggaac caccgccgt gccatcacgg ccaaggcgcg ggatgctccg caacgacagc 60
 caccgggccc tgtccccgga ggacggccag ggacgggtcg acgacggacg gccacacctc 120
 gcgtgcgtgg gggccctggc gcgggggttc atgcatactt ggcttcaggc cgccacgctg 180
 ggttttgcgg gatcggtcgt tatgtcgcgc gggccgtacg cgaatgccgc gtctggggcg 240
 ttcgcgcgtg ggtgcgcgt gctggggttt atgcgcgcac cccctccctt cgcgcggccc 300
 accgcgcgga tatacgccctg gctcaaaactg gcggccggtg gaggcggcct tgttctgtgg 360
 agtctcgggg agcccggcac gcagccgggg gccccggccc cgggcccggc caccagtgcc 420
 ctggcactgg gcgcgccta tgcggcgctc ctgggtgctg ccgatgacgt ctatccgctc 480
 tttctcctcg ccccggggcc cctgttcgtc ggcaacctgg ggatggctgt cggcgggctg 540
 acgatcggag gcagcgcgcg ctactggtgg atcgggtggc ccgccgcggc cgccctggcc 600
 gcggcggtgt tggcggggccc gggggcgacc accgccaggg actgcttttc cagggttgc 660
 cccgaccacc gccgcgtctg tgtcatcacc gcaggcgagt ctctttcccg ccgccccccg 720
 gaggaccacg agcgaccggg ggttcccggg ccccgtccc ccccgacccc ccaacgatcc 780
 caccggccgc cgcccgatga ggtcgcaccg gccagggtcg cgcggcccga aaacgtctgg 840
 gtgcccgtgg tcacctttct gggggcgggc gcgcttgccg tcaagacggt gcgagaacat 900
 gcccggggaa cgccggggccc gggcctgccg ctgtggcccc aggtgtttct cggaggccat 960
 gtggcggtgg ccctgacgga gctgtgtcag gcgcttcgcg cctgggacct tacggacctg 1020
 ctgctgtttg ttcacgcggg actgcaggtc atcaacctcg gggtgggtgt tcggttttcc 1080
 gaggtgtgct tgtatgcggc gctagggggg gccgtgtgga tttcgttggc gcaggtgctg 1140
 gggctccggc gtcgcctgca caggaaggac cccggggacg gggcccgggt ggccggcgacg 1200
 ctccggggcc tcttcttctc cgtgtacgcg ctgggggttg ggggggggt gctgctg 1257

<210> 84
 <211> 419
 <212> PRT
 <213> Herpes Virus

<400> 84
 Val Thr Glu Pro Pro Arg Val Pro Ser Arg Pro Arg Arg Gly Met Leu
 1 5 10 15
 Arg Asn Asp Ser His Arg Ala Val Ser Pro Glu Asp Gly Gln Gly Arg
 20 25 30
 Val Asp Asp Gly Arg Pro His Leu Ala Cys Val Gly Ala Leu Ala Arg
 35 40 45
 Gly Phe Met His Ile Trp Leu Gln Ala Ala Thr Leu Gly Phe Ala Gly
 50 55 60
 Ser Val Val Met Ser Arg Gly Pro Tyr Ala Asn Ala Ala Ser Gly Ala
 65 70 75 80
 Phe Ala Val Gly Cys Ala Val Leu Gly Phe Met Arg Ala Pro Pro Pro
 85 90 95
 Leu Ala Arg Pro Thr Ala Arg Ile Tyr Ala Trp Leu Lys Leu Ala Ala
 100 105 110
 Gly Gly Ala Ala Leu Val Leu Trp Ser Leu Gly Glu Pro Gly Thr Gln
 115 120 125
 Pro Gly Ala Pro Ala Pro Gly Pro Ala Thr Gln Cys Leu Ala Leu Gly
 130 135 140
 Ala Ala Tyr Ala Ala Leu Leu Val Leu Ala Asp Asp Val Tyr Pro Leu
 145 150 155 160
 Phe Leu Leu Ala Pro Gly Pro Leu Phe Val Gly Thr Leu Gly Met Val
 165 170 175
 Val Gly Gly Leu Thr Ile Gly Gly Ser Ala Arg Tyr Trp Trp Ile Gly
 180 185 190
 Gly Pro Ala Ala Ala Leu Ala Ala Val Leu Ala Gly Pro Gly
 195 200 205
 Ala Thr Thr Ala Arg Asp Cys Phe Ser Arg Ala Cys Pro Asp His Arg
 210 215 220
 Arg Val Cys Val Ile Thr Ala Gly Glu Ser Leu Ser Arg Arg Pro Pro
 225 230 235 240
 Glu Asp Pro Glu Arg Pro Gly Val Pro Gly Pro Pro Ser Pro Pro Thr
 245 250 255
 Pro Gln Arg Ser His Gly Pro Pro Ala Asp Glu Val Ala Pro Ala Arg
 260 265 270
 Val Ala Arg Pro Glu Asn Val Trp Val Pro Val Val Thr Phe Leu Gly
 275 280 285

Ala Gly Ala Leu Ala Val Lys Thr Val Arg Glu His Ala Arg Gly Thr
290 295 300

Pro Gly Pro Gly Leu Pro Leu Trp Pro Gln Val Phe Leu Gly Gly His
305 310 315 320

Val Ala Val Ala Leu Thr Glu Leu Cys Gln Ala Leu Pro Pro Trp Asp
325 330 335

Leu Thr Asp Pro Leu Leu Phe Val His Ala Gly Leu Gln Val Ile Asn
340 345 350

Leu Gly Leu Val Phe Arg Phe Ser Glu Val Val Val Tyr Ala Ala Leu
355 360 365

Gly Gly Ala Val Trp Ile Ser Leu Ala Gln Val Leu Gly Leu Arg Arg
370 375 380

Arg Leu His Arg Lys Asp Pro Gly Asp Gly Ala Arg Leu Ala Ala Thr
385 390 395 400

Leu Arg Gly Leu Phe Phe Ser Val Tyr Ala Leu Gly Phe Gly Val Gly
405 410 415

Val Leu Leu

<210> 85
<211> 1305
<212> DNA
<213> Herpes Virus

<400> 85
atgtggggcg tgacggaacc acccgcgtg ccatcacggc caaggcgcg gatgctccgc 60
aacgacagcc accgggcccgt gtccccggag gacggccagg gacgggtcga cgacggacgg 120
ccacacctcg cgtgcgtggg ggccctggcg cgggggttca tgcatactcg gcttcaggcc 180
gccacgctgg gttttgcggg atcggtcgtt atgtcgcgcg ggccgtacgc gaatgccgcg 240
tctggggcgt tcgccgtcgg gtgcgcctg ctgggcttta tgcgcgcacc ccctcccctc 300
gcgcggccca ccgcgcggat atacgcctgg ctcaaactgg cggccgggtg agcggccctt 360
gttctgtgga gtctcgggga gcccggcacg cagccggggg ccccgccccc gggcccgggc 420
accagtgccc tggcactggg cgcgcctat gcggcgctcc tgggtgctcg cgatgacgtc 480
tatccgctct ttctctcgc cccggggccc ctgttcgtcg gcacctggg gatggtcgtc 540
ggcgggctga cgatcggagg cagcgcgcgc tactgggtga tcgggtggcc cgcccgggcc 600
gccctggccg cggcggtgtt ggccggcccg ggggcgacca ccgccaggga ctgcttttcc 660
agggcttgcc ccgaccaccg ccgcgtctgt gtcacaccg caggcgagtc tctttccgc 720
cgccccccgg agggaccaga gcgaccggg gttcccgggc ccccgteccc cccgaccccc 780
caacgatccc acgggcccgc ggccgatgag gtgcgaccgg ccagggtcgc gcggcccgaa 840
aacgtctggg tgcccgtggt cactttctg ggggcgggcg cgcttgccgt caagacgggtg 900
cgagaacatg cccggggaac gccgggcccg ggccctgccg tgtggcccca ggtgtttctc 960
ggaggccatg tggcggtggc cctgacggag ctgtgtcagg cgcttcggcc ctgggacctt 1020
acggaccgcg tgctgtttgt tcacgccgga ctgcaggtca tcaacctcgg gttggtgttt 1080
cggttttccg aggttgctgt gtatgcggcg ctagggggtg ccgtgtggat ttcgttggcg 1140
caggtgctgg ggctccggcg tcgcctgcac aggaaggacc ccggggacgg ggcccgggtg 1200
gcggcgacgc ttcggggcct cttcttctcc gtgtacgcgc tggggtttgg ggtgggggtg 1260
ctgctgtgcc ctccggggtc aacgggcggg cggtcgggcg attga 1305

<210> 86
<211> 434
<212> PRT

<213> Herpes Virus

<400> 86
Met Trp Gly Val Thr Glu Pro Pro Arg Val Pro Ser Arg Pro Arg Arg
1 5 10 15
Gly Met Leu Arg Asn Asp Ser His Arg Ala Val Ser Pro Glu Asp Gly
20 25 30
Gln Gly Arg Val Asp Asp Gly Arg Pro His Leu Ala Cys Val Gly Ala
35 40 45
Leu Ala Arg Gly Phe Met His Ile Trp Leu Gln Ala Ala Thr Leu Gly
50 55 60
Phe Ala Gly Ser Val Val Met Ser Arg Gly Pro Tyr Ala Asn Ala Ala
65 70 75 80
Ser Gly Ala Phe Ala Val Gly Cys Ala Val Leu Gly Phe Met Arg Ala
85 90 95
Pro Pro Pro Leu Ala Arg Pro Thr Ala Arg Ile Tyr Ala Trp Leu Lys
100 105 110
Leu Ala Ala Gly Gly Ala Ala Leu Val Leu Trp Ser Leu Gly Glu Pro
115 120 125
Gly Thr Gln Pro Gly Ala Pro Ala Pro Gly Pro Ala Thr Gln Cys Leu
130 135 140
Ala Leu Gly Ala Ala Tyr Ala Ala Leu Leu Val Leu Ala Asp Asp Val
145 150 155 160
Tyr Pro Leu Phe Leu Leu Ala Pro Gly Pro Leu Phe Val Gly Thr Leu
165 170 175
Gly Met Val Val Gly Gly Leu Thr Ile Gly Gly Ser Ala Arg Tyr Trp
180 185 190
Trp Ile Gly Gly Pro Ala Ala Ala Ala Leu Ala Ala Ala Val Leu Ala
195 200 205
Gly Pro Gly Ala Thr Thr Ala Arg Asp Cys Phe Ser Arg Ala Cys Pro
210 215 220
Asp His Arg Arg Val Cys Val Ile Thr Ala Gly Glu Ser Leu Ser Arg
225 230 235 240
Arg Pro Pro Glu Asp Pro Glu Arg Pro Gly Val Pro Gly Pro Pro Ser
245 250 255
Pro Pro Thr Pro Gln Arg Ser His Gly Pro Pro Ala Asp Glu Val Ala
260 265 270
Pro Ala Arg Val Ala Arg Pro Glu Asn Val Trp Val Pro Val Val Thr
275 280 285
Phe Leu Gly Ala Gly Ala Leu Ala Val Lys Thr Val Arg Glu His Ala
290 295 300
Arg Gly Thr Pro Gly Pro Gly Leu Pro Leu Trp Pro Gln Val Phe Leu

305 310 315 320
 Gly Gly His Val Ala Val Ala Leu Thr Glu Leu Cys Gln Ala Leu Pro
 325 330 335
 Pro Trp Asp Leu Thr Asp Pro Leu Leu Phe Val His Ala Gly Leu Gln
 340 345 350
 Val Ile Asn Leu Gly Leu Val Phe Arg Phe Ser Glu Val Val Val Tyr
 355 360 365
 Ala Ala Leu Gly Gly Ala Val Trp Ile Ser Leu Ala Gln Val Leu Gly
 370 375 380
 Leu Arg Arg Arg Leu His Arg Lys Asp Pro Gly Asp Gly Ala Arg Leu
 385 390 395 400
 Ala Ala Thr Leu Arg Gly Leu Phe Phe Ser Val Tyr Ala Leu Gly Phe
 405 410 415
 Gly Val Gly Val Leu Leu Cys Pro Pro Gly Ser Thr Gly Gly Arg Ser
 420 425 430

Gly Asp

<210> 87
 <211> 711
 <212> DNA
 <213> Herpes Virus

<400> 87
 gtggctcctgt ggagcctggt gtggctcggg gcgggggtgt ccgggggctc ggaaactgcc 60
 tccaccgggc ccacgacac cgcggggagc gtgacgaacg cgagcgaggc cccacatcg 120
 ggggtccccc gggtcagccgc cagcccgag gtcaccccca catcgacccc aaacccaac 180
 aatgtcacac aaaacaaaac cccccccacc gagccggcca gcccccaac aacccaag 240
 cccacctcca cgcccaaaag cccccccacg tccaccccg accccaaacc caagaacaac 300
 accacccccg ccaagtcggg ccgccccact aaaccccccg ggcccgtgtg gtgcgaccgc 360
 cgcgaccat tggcccggta cggctcgcgg gtgcagatcc gatgccggtt tcggaattcc 420
 acccgcatgg agttccgcct ccagatatgg cgttactcca tgggtccgtc ccccccaatc 480
 gtcctgggtc ccgacctaga ggaggtctg acgaacatca ccgccccacc cgggggactc 540
 ctggtgtacg acagcgcccc caacctaacg gacccccacg tgctctgggc ggagggggcc 600
 ggcccgggcg ccgaccctcc gttgtattct gtcaccgggc cgctgccgac ccagcggctg 660
 attatcggcg aggtgacgcc ccgacccag ggaatgtatt acttgacctg g 711

<210> 88
 <211> 237
 <212> PRT
 <213> Herpes Virus

<400> 88
 Val Val Leu Trp Ser Leu Leu Trp Leu Gly Ala Gly Val Ser Gly Gly
 1 5 10 15
 Ser Glu Thr Ala Ser Thr Gly Pro Thr Ile Thr Ala Gly Ala Val Thr
 20 25 30
 Asn Ala Ser Glu Ala Pro Thr Ser Gly Ser Pro Gly Ser Ala Ala Ser
 35 40 45

Pro Glu Val Thr Pro Thr Ser Thr Pro Asn Pro Asn Asn Val Thr Gln
 50 55 60
 Asn Lys Thr Thr Pro Thr Glu Pro Ala Ser Pro Pro Thr Thr Pro Lys
 65 70 75 80
 Pro Thr Ser Thr Pro Lys Ser Pro Pro Thr Ser Thr Pro Asp Pro Lys
 85 90 95
 Pro Lys Asn Asn Thr Thr Pro Ala Lys Ser Gly Arg Pro Thr Lys Pro
 100 105 110
 Pro Gly Pro Val Trp Cys Asp Arg Arg Asp Pro Leu Ala Arg Tyr Gly
 115 120 125
 Ser Arg Val Gln Ile Arg Cys Arg Phe Arg Asn Ser Thr Arg Met Glu
 130 135 140
 Phe Arg Leu Gln Ile Trp Arg Tyr Ser Met Gly Pro Ser Pro Pro Ile
 145 150 155 160
 Ala Pro Ala Pro Asp Leu Glu Glu Val Leu Thr Asn Ile Thr Ala Pro
 165 170 175
 Pro Gly Gly Leu Leu Val Tyr Asp Ser Ala Pro Asn Leu Thr Asp Pro
 180 185 190
 His Val Leu Trp Ala Glu Gly Ala Gly Pro Gly Ala Asp Pro Pro Leu
 195 200 205
 Tyr Ser Val Thr Gly Pro Leu Pro Thr Gln Arg Leu Ile Ile Gly Glu
 210 215 220
 Val Thr Pro Ala Thr Gln Gly Met Tyr Tyr Leu Ala Trp
 225 230 235

<210> 89
 <211> 1536
 <212> DNA
 <213> Herpes Virus

<400> 89
 atggccccgg ggcgggtggg ccttgccgtg gtctgtgtga gcctgttgtg gctcggggcg 60
 ggggtgtccg ggggctcggg aactgcctcc accgggcccc cgatcaccgc gggagcgggtg 120
 acgaacgcga gcgaggcccc cacatcgggg tccccgggt cagccgccag cccggagggtc 180
 acccccacat cgaccccaaa cccaacaat gtcacacaaa acaaaaccac cccacccgag 240
 ccggccagcc cccaacaac cccaagccc acctccacgc caaaagccc cccacgtcc 300
 acccccgacc ccaaacccaa gaacaacacc acccccgcca agtcggggccg cccactaaa 360
 cccccgggc ccgtgtggtg cgaccgccc gaccatttg cccggtacgg ctccgagggtg 420
 cagatccgat gccggtttcg gaattccacc cgcattggagt tccgcctcca gatatggcgt 480
 tactccatgg gtccgtcccc cccaatcgct ccggctcccc acctagagga ggtcctgacg 540
 aacatcacccg cccaccccg gggactcctg gtgtacgaca gcgccccaa cctaaccggac 600
 cccacgtgc tctgggcgga gggggccggc ccgggcgccg accctccgtt gtattctgtc 660
 accgggcccgc tgccgaccca gcggctgatt atcggcgagg tgacgcccgc gaccagggga 720
 atgtattact tggcctgggg ccggatggac agcccgcacg agtacgggac gtgggtgcgc 780
 gtccgcattgt tccgcccccc gtctctgacc ctccagcccc acgcggtgat ggagggtcag 840
 ccgttcaagg cgacgtgcac ggccgcgcgc tactaccgc gtaaccccgt ggagtttgtc 900
 tggttcgagg acgaccacca ggtgtttaac ccgggccaga tcgacacgca gacgcacgag 960
 caccgccagc gggttcaccac agtctctacc gtgacctccg aggctgtcgg cggccagggtc 1020

cccccgcgga ccttcacctg ccagatgacg tggcatcgcg actccgtgac gttctcgcga 1080
 cgcaatgcc a cggggtggc cctgggtgctg ccgcggccaa ccatcaccat ggaatttggg 1140
 gtccgcattg tggctctgcac ggccgggtgc gtccccgagg gcgtgacgtt tgcctgggtc 1200
 ctgggggacg acccctcacc ggcggctaag tcggccgtta cggcccagga gtcgtgcgac 1260
 caccgcgggc tggctacggg cgggtccacc ctgcccattt cgtacgacta cagcgagtac 1320
 atctgtcggg tgaccggata tccggccggg attcccgttc tagaacacca cggcagtcac 1380
 cagccccac ccagggaccc caccgagcgg caggtgatcg aggcgatcga gtgggtgggg 1440
 attggaatcg gggttctcgc ggcgggggtc ctggtcgtaa cggcaatcgt gtacgtcgtc 1500
 cgcacatcac agtcgcggca gcgtcatcgg cggtaa 1536

<210> 90
 <211> 511
 <212> PRT
 <213> Herpes Virus

<400> 90
 Met Ala Pro Gly Arg Val Gly Leu Ala Val Val Leu Trp Ser Leu Leu
 1 5 10 15
 Trp Leu Gly Ala Gly Val Ser Gly Gly Ser Glu Thr Ala Ser Thr Gly
 20 25 30
 Pro Thr Ile Thr Ala Gly Ala Val Thr Asn Ala Ser Glu Ala Pro Thr
 35 40 45
 Ser Gly Ser Pro Gly Ser Ala Ala Ser Pro Glu Val Thr Pro Thr Ser
 50 55 60
 Thr Pro Asn Pro Asn Asn Val Thr Gln Asn Lys Thr Thr Pro Thr Glu
 65 70 75 80
 Pro Ala Ser Pro Pro Thr Thr Pro Lys Pro Thr Ser Thr Pro Lys Ser
 85 90 95
 Pro Pro Thr Ser Thr Pro Asp Pro Lys Pro Lys Asn Asn Thr Thr Pro
 100 105 110
 Ala Lys Ser Gly Arg Pro Thr Lys Pro Pro Gly Pro Val Trp Cys Asp
 115 120 125
 Arg Arg Asp Pro Leu Ala Arg Tyr Gly Ser Arg Val Gln Ile Arg Cys
 130 135 140
 Arg Phe Arg Asn Ser Thr Arg Met Glu Phe Arg Leu Gln Ile Trp Arg
 145 150 155 160
 Tyr Ser Met Gly Pro Ser Pro Pro Ile Ala Pro Ala Pro Asp Leu Glu
 165 170 175
 Glu Val Leu Thr Asn Ile Thr Ala Pro Pro Gly Gly Leu Leu Val Tyr
 180 185 190
 Asp Ser Ala Pro Asn Leu Thr Asp Pro His Val Leu Trp Ala Glu Gly
 195 200 205
 Ala Gly Pro Gly Ala Asp Pro Pro Leu Tyr Ser Val Thr Gly Pro Leu
 210 215 220
 Pro Thr Gln Arg Leu Ile Ile Gly Glu Val Thr Pro Ala Thr Gln Gly
 225 230 235 240

Met Tyr Tyr Leu Ala Trp Gly Arg Met Asp Ser Pro His Glu Tyr Gly
 245 250 255
 Thr Trp Val Arg Val Arg Met Phe Arg Pro Pro Ser Leu Thr Leu Gln
 260 265 270
 Pro His Ala Val Met Glu Gly Gln Pro Phe Lys Ala Thr Cys Thr Ala
 275 280 285
 Ala Ala Tyr Tyr Pro Arg Asn Pro Val Glu Phe Val Trp Phe Glu Asp
 290 295 300
 Asp His Gln Val Phe Asn Pro Gly Gln Ile Asp Thr Gln Thr His Glu
 305 310 315 320
 His Pro Asp Gly Phe Thr Thr Val Ser Thr Val Thr Ser Glu Ala Val
 325 330 335
 Gly Gly Gln Val Pro Pro Arg Thr Phe Thr Cys Gln Met Thr Trp His
 340 345 350
 Arg Asp Ser Val Thr Phe Ser Arg Arg Asn Ala Thr Gly Leu Ala Leu
 355 360 365
 Val Leu Pro Arg Pro Thr Ile Thr Met Glu Phe Gly Val Arg Ile Val
 370 375 380
 Val Cys Thr Ala Gly Cys Val Pro Glu Gly Val Thr Phe Ala Trp Phe
 385 390 395 400
 Leu Gly Asp Asp Pro Ser Pro Ala Ala Lys Ser Ala Val Thr Ala Gln
 405 410 415
 Glu Ser Cys Asp His Pro Gly Leu Ala Thr Val Arg Ser Thr Leu Pro
 420 425 430
 Ile Ser Tyr Asp Tyr Ser Glu Tyr Ile Cys Arg Leu Thr Gly Tyr Pro
 435 440 445
 Ala Gly Ile Pro Val Leu Glu His His Gly Ser His Gln Pro Pro Pro
 450 455 460
 Arg Asp Pro Thr Glu Arg Gln Val Ile Glu Ala Ile Glu Trp Val Gly
 465 470 475 480
 Ile Gly Ile Gly Val Leu Ala Ala Gly Val Leu Val Val Thr Ala Ile
 485 490 495
 Val Tyr Val Val Arg Thr Ser Gln Ser Arg Gln Arg His Arg Arg
 500 505 510

<210> 91
 <211> 843
 <212> DNA
 <213> Herpes Virus

<400> 91
 gatgagtacg aggatctgta ctacaccccg tcttcaggta tggcgagtcc cgatagtccg 60
 cctgacacct cccgccgtgg cgccctacag acacgctcgc gccagagggg cgaggtccgt 120

```

ttcgtccagt acgacgagtc ggattatgcc ctctacgggg gctcgtcatc cgaagacgac 180
gaacaccccg aggtcccccg gacgcggcgt cccgtttccg gggcggtttt gtccggcccc 240
gggcctgcgc gggcgccctcc gccacccgct gggtcgggag gggccggacg cacacccacc 300
accgcccccc gggccccccg aaccacgcgg gtggcgacta agggccccgc ggccccggcg 360
gcggagacca cccgcggcag gaaatcggcc cagccagaat ccgcccgcact cccagacgcc 420
cccgcgtcga cggcgccaac ccgatccaag acaccgcgc aggggctggc cagaaagctg 480
cactttagca ccgccccccc aaaccccgac gcgccatgga cccccgggt ggccggcttt 540
aacaagcgcg tcttctgcgc cgcggtcggg cgccctggcg ccatgcatgc ccgatggcg 600
gcggtccagc tctgggacat gtcggtccg cgcacagacg aagacctcaa cgaactcctt 660
ggcatcacca ccatccgcgt gacggtctgc gagggcaaaa acctgcttca gcgcgccaac 720
gagttggtga atccagacgt ggtgcaggac gtcgacgcgg ccacggcgac tcgagggcgt 780
tctgcggcgt cgcgccccac cgagcgacct cgagcccag cccgctccgc ttctcggccc 840
aga
843

```

```

<210> 92
<211> 281
<212> PRT
<213> Herpes Virus

```

```

<400> 92
Asp Glu Tyr Glu Asp Leu Tyr Tyr Thr Pro Ser Ser Gly Met Ala Ser
 1             5             10             15

Pro Asp Ser Pro Pro Asp Thr Ser Arg Arg Gly Ala Leu Gln Thr Arg
      20             25             30

Ser Arg Gln Arg Gly Glu Val Arg Phe Val Gln Tyr Asp Glu Ser Asp
      35             40             45

Tyr Ala Leu Tyr Gly Gly Ser Ser Ser Glu Asp Asp Glu His Pro Glu
 50             55             60

Val Pro Arg Thr Arg Arg Pro Val Ser Gly Ala Val Leu Ser Gly Pro
 65             70             75             80

Gly Pro Ala Arg Ala Pro Pro Pro Pro Ala Gly Ser Gly Gly Ala Gly
      85             90             95

Arg Thr Pro Thr Thr Ala Pro Arg Ala Pro Arg Thr Gln Arg Val Ala
      100            105            110

Thr Lys Ala Pro Ala Ala Pro Ala Ala Glu Thr Thr Arg Gly Arg Lys
      115            120            125

Ser Ala Gln Pro Glu Ser Ala Ala Leu Pro Asp Ala Pro Ala Ser Thr
      130            135            140

Ala Pro Thr Arg Ser Lys Thr Pro Ala Gln Gly Leu Ala Arg Lys Leu
      145            150            155            160

His Phe Ser Thr Ala Pro Pro Asn Pro Asp Ala Pro Trp Thr Pro Arg
      165            170            175

Val Ala Gly Phe Asn Lys Arg Val Phe Cys Ala Ala Val Gly Arg Leu
      180            185            190

Ala Ala Met His Ala Arg Met Ala Ala Val Gln Leu Trp Asp Met Ser
      195            200            205

Arg Pro Arg Thr Asp Glu Asp Leu Asn Glu Leu Leu Gly Ile Thr Thr

```

210 215 220

Ile Arg Val Thr Val Cys Glu Gly Lys Asn Leu Leu Gln Arg Ala Asn
 225 230 235 240

Glu Leu Val Asn Pro Asp Val Val Gln Asp Val Asp Ala Ala Thr Ala
 245 250 255

Thr Arg Gly Arg Ser Ala Ala Ser Arg Pro Thr Glu Arg Pro Arg Ala
 260 265 270

Pro Ala Arg Ser Ala Ser Arg Pro Arg
 275 280

<210> 93
 <211> 906
 <212> DNA
 <213> Herpes Virus

<400> 93

atgacctctc gccgctccgt gaagtcgggt ccgcgaggagg ttccgcgcga tgagtacgag 60
 gatctgtact acaccccgtc ttcaggtatg gcgagtcctcg atagtccgcc tgacacctcc 120
 cgccgtggcg cctacagac acgctcgcgc cagaggggag aggtccgttt cgtccagtac 180
 gacgagtcgg attatgccct ctacgggggc tcgtcatccg aagacgacga acacccggag 240
 gtcccccgga cgcggcgctcc cgtttccggg gcggttttgt ccggccccggg gcctgcgcgg 300
 gcgcctccgc caccgctgg gtccggaggg gccggacgca caccaccac cgcccccg 360
 gcccccgaa cccagcgggt ggcgactaag gcccccgcg ccccgcggc ggagaccacc 420
 cgcggcagga aatcggccca gccagaatcc gccgcactcc cagacgcccc cgcgtcgacg 480
 gcgccaaccc gatccaagac acccgcgagc gggctggcca gaaagctgca ctttagcacc 540
 gccccccaa acccgacgc gccatggacc ccccggtgg ccggtttaa caagcgcgtc 600
 ttctgcgcgc cggtcggcg cctggcgccc atgcatgcc ggatggcggc ggtccagctc 660
 tgggacatgt cgcgtccgc cacagacgaa gacctcaacg aactccttgg catcaccacc 720
 atccgcgtga cggctgcga gggcaaaaac ctgcttcagc gcgccaacga gttggtgaat 780
 ccagacgtgg tgcaggacgt cgacgcggcc acggcgactc gagggcgctc tgcggcgctc 840
 cgccccaccg agcgacctcg agccccagcc cgctccgctt ctgccccag acggcccgtc 900
 gactga 906

<210> 94
 <211> 301
 <212> PRT
 <213> Herpes Virus

<400> 94

Met Thr Ser Arg Arg Ser Val Lys Ser Gly Pro Arg Glu Val Pro Arg
 1 5 10 15

Asp Glu Tyr Glu Asp Leu Tyr Tyr Thr Pro Ser Ser Gly Met Ala Ser
 20 25 30

Pro Asp Ser Pro Pro Asp Thr Ser Arg Arg Gly Ala Leu Gln Thr Arg
 35 40 45

Ser Arg Gln Arg Gly Glu Val Arg Phe Val Gln Tyr Asp Glu Ser Asp
 50 55 60

Tyr Ala Leu Tyr Gly Gly Ser Ser Ser Glu Asp Asp Glu His Pro Glu
 65 70 75 80

Val Pro Arg Thr Arg Arg Pro Val Ser Gly Ala Val Leu Ser Gly Pro

	85		90		95										
Gly	Pro	Ala	Arg	Ala	Pro	Pro	Pro	Pro	Ala	Gly	Ser	Gly	Gly	Ala	Gly
			100					105					110		
Arg	Thr	Pro	Thr	Thr	Ala	Pro	Arg	Ala	Pro	Arg	Thr	Gln	Arg	Val	Ala
			115					120					125		
Thr	Lys	Ala	Pro	Ala	Ala	Pro	Ala	Ala	Glu	Thr	Thr	Arg	Gly	Arg	Lys
			130					135					140		
Ser	Ala	Gln	Pro	Glu	Ser	Ala	Ala	Leu	Pro	Asp	Ala	Pro	Ala	Ser	Thr
			145					150			155				160
Ala	Pro	Thr	Arg	Ser	Lys	Thr	Pro	Ala	Gln	Gly	Leu	Ala	Arg	Lys	Leu
					165				170						175
His	Phe	Ser	Thr	Ala	Pro	Pro	Asn	Pro	Asp	Ala	Pro	Trp	Thr	Pro	Arg
			180					185						190	
Val	Ala	Gly	Phe	Asn	Lys	Arg	Val	Phe	Cys	Ala	Ala	Val	Gly	Arg	Leu
			195					200					205		
Ala	Ala	Met	His	Ala	Arg	Met	Ala	Ala	Val	Gln	Leu	Trp	Asp	Met	Ser
			210					215					220		
Arg	Pro	Arg	Thr	Asp	Glu	Asp	Leu	Asn	Glu	Leu	Leu	Gly	Ile	Thr	Thr
			225					230				235			240
Ile	Arg	Val	Thr	Val	Cys	Glu	Gly	Lys	Asn	Leu	Leu	Gln	Arg	Ala	Asn
					245				250						255
Glu	Leu	Val	Asn	Pro	Asp	Val	Val	Gln	Asp	Val	Asp	Ala	Ala	Thr	Ala
			260					265						270	
Thr	Arg	Gly	Arg	Ser	Ala	Ala	Ser	Arg	Pro	Thr	Glu	Arg	Pro	Arg	Ala
			275					280						285	
Pro	Ala	Arg	Ser	Ala	Ser	Arg	Pro	Arg	Arg	Pro	Val	Glu			
			290					295				300			

<210> 95
 <211> 1023
 <212> DNA
 <213> Herpes Virus

<400> 95
 gactggtttc cctgctacga cgacgccggt gatgaggagt gggcggagga cccgggccc 60
 atggacacat cccacgatcc cccggacgac gaggttgctt actttgacct gtgccacgaa 120
 gtcggcccca cggcggaaac tcgcgaaacg gattcgcccc tgtgttcctg caccgacaag 180
 atcggactgc ggggtgtgcat gcccgtcccc gcccgtacg tcgtccacgg ttctctaacg 240
 atgcgggggg tggcacgggt catccagcag gcggtgctgt tggaccgaga ttttgtggag 300
 gccatcgagg gctacgtaaa aaacttctgt ttgatcgata cgggggtgta cgcccacggc 360
 cacagcctgc gcttgccgta ttttgccaaa atcgccccg acgggcctgc gtgcggaagg 420
 ctgctgccag tgtttgtgat cccccccgcc tgcaaagacg ttccggcggt tgctgcgcgcg 480
 cacgccgacc cgcggcgctt ccattttcac gcccgcacca cctatctcgc tcccccccg 540
 gagatccgtg tcctgcacag cctgggtggg gactatgtga gcttctttga aaggaaggcg 600
 tcccgcaacg cgctggaaca ctttgggcga cgcgagacc tgacggaggt cctgggtcgg 660
 tacaacgtac agccggatgc gggggggacc gtcgaggggt tcgcatcgga actgctgggg 720
 cggatagtcg cgtgcatcga aaccacttt cccgaacacg ccggcgaata tcaggccgta 780

tccgtccggc gggccgtcag taaggacgac tgggtcctcc tacagctagt ccccgttcgc 840
 ggtaccctgc agcaaagcct gtcgtgtctg cgctttaagc acggccgggc gagtcgcgcc 900
 acggcgcgga cattcgctgc gctgagcgtc ggggccaaca accgcctgtg cgtgtccttg 960
 tgtcagcagt gctttgccgc caaatgacgac agcaaccgcc tgcacacgct gtttaccatt 1020
 gac 1023

<210> 96
 <211> 341
 <212> PRT
 <213> Herpes Virus

<400> 96
 Asp Trp Phe Pro Cys Tyr Asp Asp Ala Gly Asp Glu Glu Trp Ala Glu
 1 5 10 15
 Asp Pro Gly Ala Met Asp Thr Ser His Asp Pro Pro Asp Asp Glu Val
 20 25 30
 Ala Tyr Phe Asp Leu Cys His Glu Val Gly Pro Thr Ala Glu Pro Arg
 35 40 45
 Glu Thr Asp Ser Pro Val Cys Ser Cys Thr Asp Lys Ile Gly Leu Arg
 50 55 60
 Val Cys Met Pro Val Pro Ala Pro Tyr Val Val His Gly Ser Leu Thr
 65 70 75 80
 Met Arg Gly Val Ala Arg Val Ile Gln Gln Ala Val Leu Leu Asp Arg
 85 90 95
 Asp Phe Val Glu Ala Ile Gly Ser Tyr Val Lys Asn Phe Leu Leu Ile
 100 105 110
 Asp Thr Gly Val Tyr Ala His Gly His Ser Leu Arg Leu Pro Tyr Phe
 115 120 125
 Ala Lys Ile Ala Pro Asp Gly Pro Ala Cys Gly Arg Leu Leu Pro Val
 130 135 140
 Phe Val Ile Pro Pro Ala Cys Lys Asp Val Pro Ala Phe Val Ala Ala
 145 150 155 160
 His Ala Asp Pro Arg Arg Phe His Phe His Ala Pro Pro Thr Tyr Leu
 165 170 175
 Ala Ser Pro Arg Glu Ile Arg Val Leu His Ser Leu Gly Gly Asp Tyr
 180 185 190
 Val Ser Phe Phe Glu Arg Lys Ala Ser Arg Asn Ala Leu Glu His Phe
 195 200 205
 Gly Arg Arg Glu Thr Leu Thr Glu Val Leu Gly Arg Tyr Asn Val Gln
 210 215 220
 Pro Asp Ala Gly Gly Thr Val Glu Gly Phe Ala Ser Glu Leu Leu Gly
 225 230 235 240
 Arg Ile Val Ala Cys Ile Glu Thr His Phe Pro Glu His Ala Gly Glu
 245 250 255

Tyr Gln Ala Val Ser Val Arg Arg Ala Val Ser Lys Asp Asp Trp Val
 260 265 270
 Leu Leu Gln Leu Val Pro Val Arg Gly Thr Leu Gln Gln Ser Leu Ser
 275 280 285
 Cys Leu Arg Phe Lys His Gly Arg Ala Ser Arg Ala Thr Ala Arg Thr
 290 295 300
 Phe Val Ala Leu Ser Val Gly Ala Asn Asn Arg Leu Cys Val Ser Leu
 305 310 315 320
 Cys Gln Gln Cys Phe Ala Ala Lys Cys Asp Ser Asn Arg Leu His Thr
 325 330 335
 Leu Phe Thr Ile Asp
 340

<210> 97
 <211> 3177
 <212> DNA
 <213> Herpes Virus

<400> 97
 atggggcagg aagacgggaa ccgcggggag aggcggggcgg ccgggactcc cgtggaggtg 60
 accgcgcttt atgcgaccga cgggtgcgtt attacctctt cgatcgccct cctcacaac 120
 tcttactg ggcccgagcc gggttatata ttcagctacg acgcatacac gcacgatggc 180
 cgtgccgacg ggcccacgga gcaagacagg ttcgaagaga gtcgggcgct ctaccaagcg 240
 tcgggcgggc taaatggcga ctcttccga gtaacctttt gtttattggg gacggaagtg 300
 ggtgggaccc accaggcccg cgggcgaacc cgacctatgt tcgtctgtcg cttcgagcga 360
 gcggacgacg tcgcccgct acaggacgcc ctggcgacg ggaccccgct acaaccggac 420
 cacatcgccg ccacctgga cgcgaggcc acgttcgcgc tgcattgcga catgatcctg 480
 gctctcaccg tggccatcaa caacgccagc cccgcaccg gacgcgacgc cgccgcggcg 540
 cagtatgac agggcgcgct cctacgctcg ctcggtgggg gcacgtccct gggacaacgc 600
 ggcttacca cgctatacgt ccaccacgag gtgcgcgtgc ttgccgcgta ccgcagggcg 660
 tattatggaa gcgcgcagag tcccttctgg tttcttagca aattcgggcc ggacgaaaaa 720
 agcctgggtg tcaccactcg gtactacctg cttcaggccc agcgtctggg gggcgcgggg 780
 gccacgtacg acctgcaggc catcaaggac atctgcgcca cctacgcgat tccccacgcc 840
 cccgcgcccg acaccgtcag cgtgcgtcc ctgacctcgt ttgccgccat cagcggttgc 900
 tgttgacga gccagtacgc ccgcggggcc ggcgcggccg ggtttccgct ttacgtggag 960
 cgccgtattg cggccgacgt ccgcgagacc agtgcgctgg agaagtcat aaccacgat 1020
 cgcagttgcc tgcgcgtgtc cgacctgaa ttcattacgt acatctacct ggccccattt 1080
 gagtgtttca gccccccg cctagccacg catcttcggg ccgtgacgac ccacgacccc 1140
 aaccccgcg ccagcacgga gcagccctcg cccctgggca gggaggccgt ggaacaattt 1200
 ttttgtcag tgcgcgcca actgaatgc ggggagtag tcaaacaaa cgtgaccccc 1260
 cgggagaccg tcttggtg cgatacggcc aaggcctacc tgcgcgctcg cactgacg 1320
 cccggggccc tgacgcccgc cccgcgctat tgcggggccg tggactcgc caccaaaatg 1380
 atggggcggt tggcgacgc cgaagagctc ctgggtcccc gcgggtggcc cgcgtttg 1440
 cccgccagtc ccggggagga cacggcgggc ggcacgccgc cccacagac ctgcgggaatt 1500
 gtcaagcgcc tcctgagact ggccgccacg gaacagcagg gccccacacc cccggcgatc 1560
 gcggcgctta tccgtaatgc ggccgtgcag actcccctgc ccgtctaccg gatataccatg 1620
 gtccccacgg gacaggcatt tgccgcgctg gcctgggacg actggggccc cataacgcgg 1680
 gacgctcgcc tggccgaagc ggtcgtgtcc gccgaagcgg cggcgacccc cgaccacggc 1740
 gcgctgggca ggccgctcac ggatcgatc cgcgcccagg gcccgtgat gcccctggc 1800
 ggcctggatg ccggggggca gatgtacgt aatcgcaac agatattcaa cggcgcgctg 1860
 gcaatcacia acatcatcct ggatctcgac atcgccctga aggagcccg cccctttcgc 1920
 cggctccacg aggcctggg ccactttagg cgcggggctc tggtgcggt tcagctcctg 1980
 tttcccgcc cccgcgtgga cccgcacgca tatccctgtt attttttcaa aagcgcatgt 2040
 cggcccgcc cggcgctcgt gggttccggc agcggactcg gcaacgacga cgacggggac 2100
 tggtttcct gctacgacga gcgcgggtgat gaggagtggg cggaggaccc gggcgccatg 2160

```

gacacatccc acgatccccc ggacgacgag gttgcctact ttgacctgtg ccacgaagtc 2220
ggccccacgg cggaacctcg cgaaacggat tcgcccgtgt gttcctgcac cgacaagatc 2280
ggactgcggg tgtgcatgcc cgtccccgcc ccgtacgtcg tccacggttc tctaacgatg 2340
cgggggggtgg cacgggtcat ccagcaggcg gtgctgttgg accgagattt tgtggaggcc 2400
atcgggagct acgtaaaaaa cttcctgttg atcgatacgg ggggtgtacgc ccacggccac 2460
agcctgcgct tgccgtattt tgccaaaatc gcccccgacg ggcctgcgtg cggaaggctg 2520
ctgccagtgt ttgtgatccc ccccgctgc aaagacgttc cggcgtttgt cggcgcgcac 2580
gccgaccgcg ggcgcttcca ttttcacgcc ccgcccacct atctcgcttc cccccgggag 2640
atccgtgtcc tgcacagcct ggggtggggac tatgtgagct tctttgaaag gaaggcgctc 2700
cgcaacgcgc tggaaacctt tgggcgacgc gagaccctga cggaggtcct gggtcggtag 2760
aacgtacagc cggatgcggg ggggaccgtc gaggggttcg catcggaact gctggggcgg 2820
atagtcgcgt gcacgaaac ccactttccc gaacacgccc gcgaatatca ggccgtatcc 2880
gtccggcggg ccgtcagtaa ggacgactgg gtccctctac agctagtccc cgttcgcggt 2940
accctgcagc aaagcctgtc gtgtctgcgc ttttaagcac gccgggcgag tcgcgccacg 3000
gcgcggacat tcgtcgcgct gagcgtcggg gccacaacc gcctgtgcgt gtccttgtgt 3060
cagcagtgtt ttgccgcaa atgcgacagc aaccgcctgc acacgctgtt taccattgac 3120
gccggcacgc catgctcgcc gtccgttccc tgcagcacct ctcaaccgtc gtcttga 3177

```

<210> 98
 <211> 1058
 <212> PRT
 <213> Herpes Virus

```

<400> 98
Met Gly Gln Glu Asp Gly Asn Arg Gly Glu Arg Arg Ala Ala Gly Thr
  1              5              10              15

Pro Val Glu Val Thr Ala Leu Tyr Ala Thr Asp Gly Cys Val Ile Thr
          20              25              30

Ser Ser Ile Ala Leu Leu Thr Asn Ser Leu Leu Gly Ala Glu Pro Val
  35              40              45

Tyr Ile Phe Ser Tyr Asp Ala Tyr Thr His Asp Gly Arg Ala Asp Gly
  50              55              60

Pro Thr Glu Gln Asp Arg Phe Glu Glu Ser Arg Ala Leu Tyr Gln Ala
  65              70              75              80

Ser Gly Gly Leu Asn Gly Asp Ser Phe Arg Val Thr Phe Cys Leu Leu
          85              90              95

Gly Thr Glu Val Gly Gly Thr His Gln Ala Arg Gly Arg Thr Arg Pro
  100              105              110

Met Phe Val Cys Arg Phe Glu Arg Ala Asp Asp Val Ala Ala Leu Gln
  115              120              125

Asp Ala Leu Ala His Gly Thr Pro Leu Gln Pro Asp His Ile Ala Ala
  130              135              140

Thr Leu Asp Ala Glu Ala Thr Phe Ala Leu His Ala Asn Met Ile Leu
  145              150              155              160

Ala Leu Thr Val Ala Ile Asn Asn Ala Ser Pro Arg Thr Gly Arg Asp
          165              170              175

Ala Ala Ala Ala Gln Tyr Asp Gln Gly Ala Ser Leu Arg Ser Leu Val
  180              185              190

```


Gly Arg Thr Ser Leu Gly Gln Arg Gly Leu Thr Thr Leu Tyr Val His
 195 200 205
 His Glu Val Arg Val Leu Ala Ala Tyr Arg Arg Ala Tyr Tyr Gly Ser
 210 215 220
 Ala Gln Ser Pro Phe Trp Phe Leu Ser Lys Phe Gly Pro Asp Glu Lys
 225 230 235 240
 Ser Leu Val Leu Thr Thr Arg Tyr Tyr Leu Leu Gln Ala Gln Arg Leu
 245 250 255
 Gly Gly Ala Gly Ala Thr Tyr Asp Leu Gln Ala Ile Lys Asp Ile Cys
 260 265 270
 Ala Thr Tyr Ala Ile Pro His Ala Pro Arg Pro Asp Thr Val Ser Ala
 275 280 285
 Ala Ser Leu Thr Ser Phe Ala Ala Ile Thr Arg Phe Cys Cys Thr Ser
 290 295 300
 Gln Tyr Ala Arg Gly Ala Ala Ala Ala Gly Phe Pro Leu Tyr Val Glu
 305 310 315 320
 Arg Arg Ile Ala Ala Asp Val Arg Glu Thr Ser Ala Leu Glu Lys Phe
 325 330 335
 Ile Thr His Asp Arg Ser Cys Leu Arg Val Ser Asp Arg Glu Phe Ile
 340 345 350
 Thr Tyr Ile Tyr Leu Ala His Phe Glu Cys Phe Ser Pro Pro Arg Leu
 355 360 365
 Ala Thr His Leu Arg Ala Val Thr Thr His Asp Pro Asn Pro Ala Ala
 370 375 380
 Ser Thr Glu Gln Pro Ser Pro Leu Gly Arg Glu Ala Val Glu Gln Phe
 385 390 395 400
 Phe Cys His Val Arg Ala Gln Leu Asn Ile Gly Glu Tyr Val Lys His
 405 410 415
 Asn Val Thr Pro Arg Glu Thr Val Leu Asp Gly Asp Thr Ala Lys Ala
 420 425 430
 Tyr Leu Arg Ala Arg Thr Tyr Ala Pro Gly Ala Leu Thr Pro Ala Pro
 435 440 445
 Ala Tyr Cys Gly Ala Val Asp Ser Ala Thr Lys Met Met Gly Arg Leu
 450 455 460
 Ala Asp Ala Glu Lys Leu Leu Val Pro Arg Gly Trp Pro Ala Phe Ala
 465 470 475 480
 Pro Ala Ser Pro Gly Glu Asp Thr Ala Gly Gly Thr Pro Pro Pro Gln
 485 490 495
 Thr Cys Gly Ile Val Lys Arg Leu Leu Arg Leu Ala Ala Thr Glu Gln
 500 505 510
 Gln Gly Pro Thr Pro Pro Ala Ile Ala Ala Leu Ile Arg Asn Ala Ala

515					520					525					
Val	Gln	Thr	Pro	Leu	Pro	Val	Tyr	Arg	Ile	Ser	Met	Val	Pro	Thr	Gly
530						535					540				
Gln	Ala	Phe	Ala	Ala	Leu	Ala	Trp	Asp	Asp	Trp	Ala	Arg	Ile	Thr	Arg
545					550					555					560
Asp	Ala	Arg	Leu	Ala	Glu	Ala	Val	Val	Ser	Ala	Glu	Ala	Ala	Ala	His
				565					570					575	
Pro	Asp	His	Gly	Ala	Leu	Gly	Arg	Arg	Leu	Thr	Asp	Arg	Ile	Arg	Ala
			580				585						590		
Gln	Gly	Pro	Val	Met	Pro	Pro	Gly	Gly	Leu	Asp	Ala	Gly	Gly	Gln	Met
		595					600					605			
Tyr	Val	Asn	Arg	Asn	Glu	Ile	Phe	Asn	Gly	Ala	Leu	Ala	Ile	Thr	Asn
	610					615					620				
Ile	Ile	Leu	Asp	Leu	Asp	Ile	Ala	Leu	Lys	Glu	Pro	Val	Pro	Phe	Arg
625				630						635					640
Arg	Leu	His	Glu	Ala	Leu	Gly	His	Phe	Arg	Arg	Gly	Ala	Leu	Ala	Ala
				645					650					655	
Val	Gln	Leu	Leu	Phe	Pro	Ala	Ala	Arg	Val	Asp	Pro	Asp	Ala	Tyr	Pro
			660					665					670		
Cys	Tyr	Phe	Phe	Lys	Ser	Ala	Cys	Arg	Pro	Gly	Pro	Ala	Ser	Val	Gly
	675						680					685			
Ser	Gly	Ser	Gly	Leu	Gly	Asn	Asp	Asp	Asp	Gly	Asp	Trp	Phe	Pro	Cys
	690					695					700				
Tyr	Asp	Asp	Ala	Gly	Asp	Glu	Glu	Trp	Ala	Glu	Asp	Pro	Gly	Ala	Met
705				710						715					720
Asp	Thr	Ser	His	Asp	Pro	Pro	Asp	Asp	Glu	Val	Ala	Tyr	Phe	Asp	Leu
				725					730					735	
Cys	His	Glu	Val	Gly	Pro	Thr	Ala	Glu	Pro	Arg	Glu	Thr	Asp	Ser	Pro
			740					745					750		
Val	Cys	Ser	Cys	Thr	Asp	Lys	Ile	Gly	Leu	Arg	Val	Cys	Met	Pro	Val
	755						760					765			
Pro	Ala	Pro	Tyr	Val	Val	His	Gly	Ser	Leu	Thr	Met	Arg	Gly	Val	Ala
	770					775					780				
Arg	Val	Ile	Gln	Gln	Ala	Val	Leu	Leu	Asp	Arg	Asp	Phe	Val	Glu	Ala
785				790						795					800
Ile	Gly	Ser	Tyr	Val	Lys	Asn	Phe	Leu	Leu	Ile	Asp	Thr	Gly	Val	Tyr
				805					810					815	
Ala	His	Gly	His	Ser	Leu	Arg	Leu	Pro	Tyr	Phe	Ala	Lys	Ile	Ala	Pro
			820					825					830		
Asp	Gly	Pro	Ala	Cys	Gly	Arg	Leu	Leu	Pro	Val	Phe	Val	Ile	Pro	Pro
		835					840					845			

Ala Cys Lys Asp Val Pro Ala Phe Val Ala Ala His Ala Asp Pro Arg
 850 855 860
 Arg Phe His Phe His Ala Pro Pro Thr Tyr Leu Ala Ser Pro Arg Glu
 865 870 875 880
 Ile Arg Val Leu His Ser Leu Gly Gly Asp Tyr Val Ser Phe Phe Glu
 885 890 895
 Arg Lys Ala Ser Arg Asn Ala Leu Glu His Phe Gly Arg Arg Glu Thr
 900 905 910
 Leu Thr Glu Val Leu Gly Arg Tyr Asn Val Gln Pro Asp Ala Gly Gly
 915 920 925
 Thr Val Glu Gly Phe Ala Ser Glu Leu Leu Gly Arg Ile Val Ala Cys
 930 935 940
 Ile Glu Thr His Phe Pro Glu His Ala Gly Glu Tyr Gln Ala Val Ser
 945 950 955 960
 Val Arg Arg Ala Val Ser Lys Asp Asp Trp Val Leu Leu Gln Leu Val
 965 970 975
 Pro Val Arg Gly Thr Leu Gln Gln Ser Leu Ser Cys Leu Arg Phe Lys
 980 985 990
 His Gly Arg Ala Ser Arg Ala Thr Ala Arg Thr Phe Val Ala Leu Ser
 995 1000 1005
 Val Gly Ala Asn Asn Arg Leu Cys Val Ser Leu Cys Gln Gln Cys Phe
 1010 1015 1020
 Ala Ala Lys Cys Asp Ser Asn Arg Leu His Thr Leu Phe Thr Ile Asp
 1025 1030 1035 1040
 Ala Gly Thr Pro Cys Ser Pro Ser Val Pro Cys Ser Thr Ser Gln Pro
 1045 1050 1055
 Ser Ser

<210> 99
 <211> 701
 <212> DNA
 <213> Herpes Virus

<400> 99
 ttggtcctgc gctccatctc cgagcgcgcg gcggctcgacc gcatcagcga gagctttggc 60
 cgcagcgcac aggtcatgca cgaccccttt ggggggcagc cgtttccgc cgccaatagc 120
 ccctgggccc cggtgctggc gggccaagga gggcccttg acgccgagac cagacgggtc 180
 tcctgggaaa ccttggtcgc ccacggcccg agcctctatc gcacttttgc cggcaatcct 240
 cgggcccgcg cgaccgcaa ggccatgcgc gactgcgtgc tgcgccaaga aaatttcac 300
 gaggcgctgg cctccgccga cgagacgctg gcgtggtgca agatgtgcat ccaccacaac 360
 ctgccgctgc gccccagga cccattatc gggacgaccg cggctgtgct ggataacctc 420
 gccacgcgcc tgcggccctt tctccagtgc tacctgaagg cgcgaggcct gtgcggcctg 480
 gacgaactgt gttcgcggcg gcgtctggcg gacattaagg acattgcac cttcgtgttt 540
 gtcattctcg ccaggctcgc caaccgcgct gagcgtggcg tcgcggagat cgactacgcg 600
 acccttggtg tcgggggtcgg agagaagatg catttctacc tccccggggc ctgcatggcg 660

ggcctgatcg aaatcctaga cacgcaccgc caggagtgtt c

701

<210> 100
<211> 233
<212> PRT
<213> Herpes Virus

<400> 100
Leu Val Leu Arg Ser Ile Ser Glu Arg Ala Ala Val Asp Arg Ile Ser
1 5 10 15
Glu Ser Phe Gly Arg Ser Ala Gln Val Met His Asp Pro Phe Gly Gly
20 25 30
Gln Pro Phe Pro Ala Ala Asn Ser Pro Trp Ala Pro Val Leu Ala Gly
35 40 45
Gln Gly Gly Pro Phe Asp Ala Glu Thr Arg Arg Val Ser Trp Glu Thr
50 55 60
Leu Val Ala His Gly Pro Ser Leu Tyr Arg Thr Phe Ala Gly Asn Pro
65 70 75 80
Arg Ala Ala Ser Thr Ala Lys Ala Met Arg Asp Cys Val Leu Arg Gln
85 90 95
Glu Asn Phe Ile Glu Ala Leu Ala Ser Ala Asp Glu Thr Leu Ala Trp
100 105 110
Cys Lys Met Cys Ile His His Asn Leu Pro Leu Arg Pro Gln Asp Pro
115 120 125
Ile Ile Gly Thr Thr Ala Ala Val Leu Asp Asn Leu Ala Thr Arg Leu
130 135 140
Arg Pro Phe Leu Gln Cys Tyr Leu Lys Ala Arg Gly Leu Cys Gly Leu
145 150 155 160
Asp Glu Leu Cys Ser Arg Arg Arg Leu Ala Asp Ile Lys Asp Ile Ala
165 170 175
Ser Phe Val Phe Val Ile Leu Ala Arg Leu Ala Asn Arg Val Glu Arg
180 185 190
Gly Val Ala Glu Ile Asp Tyr Ala Thr Leu Gly Val Gly Val Gly Glu
195 200 205
Lys Met His Phe Tyr Leu Pro Gly Ala Cys Met Ala Gly Leu Ile Glu
210 215 220
Ile Leu Asp Thr His Arg Gln Glu Cys
225 230

<210> 101
<211> 1539
<212> DNA
<213> Herpes Virus

<400> 101

```

atggcgactg acattgatat gctaattgac ctcggcctgg acctctccga cagcgatctg 60
gacgaggacc cccccgagcc ggaggagagc cgccgcgacg acctggaatc ggacagcagc 120
ggggagtgtt cctcgtcgga cgaggacatg gaagaccccc acggagagga cggaccggag 180
ccgatactcg acgccgctcg cccggcggtc cgcccgtctc gtccagaaga ccccggcgta 240
cccagcacc cagacgcctcg tccgacggag cggcagggcc ccaacgatcc tcaaccagcg 300
ccccacagtg tgtggtcgcg cctcggggcc cggcgaccgt cttgctcccc cgagcagcac 360
gggggcaagg tggcccgcct ccaaccccc cggaccaaag cccagcctgc ccgcggcgga 420
cgccgtgggc gtgcgagggg tcggggtcgc ggtggtcccc gggctgccga tggtttgtcg 480
gacccccgcc ggcgtgcccc cagaaccaat cgcaacctg ggggacccc ccccgggcg 540
gggtggacgg acggcccccg cgccccccat ggcgagcggt ggcgcggcag tagcagccc 600
gacccacccg gaggccagcg gacacggggc gtgcgccaag ccccccccc gctaatagac 660
ctggcgattg ccccccgcc cgccggaccc cgcccccgg ccccgagcg aaaggcgccc 720
gccgccgaca ccatcgacgc caccacgcgg ttggtcctgc gctccatctc cgagcgcgcg 780
gcggtcgacc gcatcagcga gagctttggc cgcagcgcac aggtcatgca cgaccccttt 840
ggggggcagc cgtttcccg cgcgaaatag ccctggggcc cgggtgctgg gggccaagga 900
gggccttttg acgccgagac cagacgggtc tcctgggaaa ccttggtcgc ccacggcccc 960
agcctctatc gcacttttgc cggcaatcct cgggcccgc cagccgcca ggcatgccc 1020
gactgcgtgc tgcgccaaga aaatttcac gaggcgctgg cctccgccc cgagacgctg 1080
gcgtggtgca agatgtgcat ccaccacaac ctgccgctgc gccccagga cccattatc 1140
gggacgaccg cggctgtgct ggataacct gccacgcgcc tgcggccctt tctccagtgc 1200
tacctgaagg cgcgagccct gtgcggcctg gacgaactgt gttcgcgcg gcgtctggcg 1260
gacattaagg acattgcac cttcgtgttt gtcattctgg ccaggctcgc caaccgcgtc 1320
gagcgtggcg tcgcggagat cgactacgc acccttggtg tcggggtcgg agagaagatg 1380
catttctacc tccccggggc ctgcatggcg ggcctgatcg aaatcctaga cagccaccgc 1440
caggagtgtt cgagtcgtgt ctgcgagttg acggccagtc acatcgctgc cccccgtac 1500
gtgcacggca aatattttta ttgcaactcc ctgttttag 1539

```

<210> 102
 <211> 512
 <212> PRT
 <213> Herpes Virus

```

<400> 102
Met Ala Thr Asp Ile Asp Met Leu Ile Asp Leu Gly Leu Asp Leu Ser
  1             5             10             15

Asp Ser Asp Leu Asp Glu Asp Pro Pro Glu Pro Ala Glu Ser Arg Arg
      20             25             30

Asp Asp Leu Glu Ser Asp Ser Ser Gly Glu Cys Ser Ser Ser Asp Glu
      35             40             45

Asp Met Glu Asp Pro His Gly Glu Asp Gly Pro Glu Pro Ile Leu Asp
      50             55             60

Ala Ala Arg Pro Ala Val Arg Pro Ser Arg Pro Glu Asp Pro Gly Val
      65             70             75             80

Pro Ser Thr Gln Thr Pro Arg Pro Thr Glu Arg Gln Gly Pro Asn Asp
      85             90             95

Pro Gln Pro Ala Pro His Ser Val Trp Ser Arg Leu Gly Ala Arg Arg
      100            105            110

Pro Ser Cys Ser Pro Glu Gln His Gly Gly Lys Val Ala Arg Leu Gln
      115            120            125

Pro Pro Pro Thr Lys Ala Gln Pro Ala Arg Gly Gly Arg Arg Gly Arg
      130            135            140

```

Arg Arg Gly Arg Gly Arg Gly Gly Pro Gly Ala Ala Asp Gly Leu Ser
 145 150 155 160
 Asp Pro Arg Arg Arg Ala Pro Arg Thr Asn Arg Asn Pro Gly Gly Pro
 165 170 175
 Arg Pro Gly Ala Gly Trp Thr Asp Gly Pro Gly Ala Pro His Gly Glu
 180 185 190
 Ala Trp Arg Gly Ser Glu Gln Pro Asp Pro Pro Gly Gly Gln Arg Thr
 195 200 205
 Arg Gly Val Arg Gln Ala Pro Pro Pro Leu Met Thr Leu Ala Ile Ala
 210 215 220
 Pro Pro Pro Ala Asp Pro Arg Ala Pro Ala Pro Glu Arg Lys Ala Pro
 225 230 235 240
 Ala Ala Asp Thr Ile Asp Ala Thr Thr Arg Leu Val Leu Arg Ser Ile
 245 250 255
 Ser Glu Arg Ala Ala Val Asp Arg Ile Ser Glu Ser Phe Gly Arg Ser
 260 265 270
 Ala Gln Val Met His Asp Pro Phe Gly Gly Gln Pro Phe Pro Ala Ala
 275 280 285
 Asn Ser Pro Trp Ala Pro Val Leu Ala Gly Gln Gly Gly Pro Phe Asp
 290 295 300
 Ala Glu Thr Arg Arg Val Ser Trp Glu Thr Leu Val Ala His Gly Pro
 305 310 315 320
 Ser Leu Tyr Arg Thr Phe Ala Gly Asn Pro Arg Ala Ala Ser Thr Ala
 325 330 335
 Lys Ala Met Arg Asp Cys Val Leu Arg Gln Glu Asn Phe Ile Glu Ala
 340 345 350
 Leu Ala Ser Ala Asp Glu Thr Leu Ala Trp Cys Lys Met Cys Ile His
 355 360 365
 His Asn Leu Pro Leu Arg Pro Gln Asp Pro Ile Ile Gly Thr Thr Ala
 370 375 380
 Ala Val Leu Asp Asn Leu Ala Thr Arg Leu Arg Pro Phe Leu Gln Cys
 385 390 395 400
 Tyr Leu Lys Ala Arg Gly Leu Cys Gly Leu Asp Glu Leu Cys Ser Arg
 405 410 415
 Arg Arg Leu Ala Asp Ile Lys Asp Ile Ala Ser Phe Val Phe Val Ile
 420 425 430
 Leu Ala Arg Leu Ala Asn Arg Val Glu Arg Gly Val Ala Glu Ile Asp
 435 440 445
 Tyr Ala Thr Leu Gly Val Gly Val Gly Glu Lys Met His Phe Tyr Leu
 450 455 460
 Pro Gly Ala Cys Met Ala Gly Leu Ile Glu Ile Leu Asp Thr His Arg

Asp Asp Val Asp Glu Asp Ala Pro Asp Asp Val Ala Tyr Pro Glu Glu
 100 105 110
 Tyr Ala Glu Glu Leu Phe Leu Pro Gly Asp Ala Thr Gly Pro Leu Ile
 115 120 125
 Gly Ala Asn Asp His Ile Pro Pro Pro Cys Gly Ala Ser Pro Pro Gly
 130 135 140
 Ile Arg Arg Arg Ser Arg Asp Glu Ile Gly Ala Thr Gly Phe Thr Ala
 145 150 155 160
 Glu Glu Leu Asp Ala Met Asp Arg Glu Ala Ala Arg Ala Ile Ser Arg
 165 170 175
 Gly Gly Lys Pro Pro Ser Thr Met Ala Lys Leu Val Thr Gly Met Gly
 180 185 190
 Phe Thr Ile His Gly Ala Leu Thr Pro Gly Ser Glu Gly Cys Val Phe
 195 200 205
 Asp Ser Ser His Pro Asp Tyr Pro Gln Arg Val Ile Val Lys Ala Gly
 210 215 220
 Trp Tyr Thr Ser Thr Ser His Glu Ala Arg Leu Leu Arg Arg Leu Asp
 225 230 235 240
 His Pro Ala Ile Leu Pro Leu Leu Asp Leu His Val Val Ser Gly Val
 245 250 255
 Thr Cys Leu Val Leu Pro Lys Tyr Gln Ala Asp Leu Tyr Thr Tyr Leu
 260 265 270
 Ser Arg Arg Leu Asn Pro Leu Gly Arg Pro Gln Ile Ala Ala Val Ser
 275 280 285
 Arg Gln Leu Leu Ser Ala Val Asp Tyr Ile His Arg Gln Gly Ile Ile
 290 295 300
 His Arg Asp Ile Lys Thr Glu Asn Ile Phe Ile Asn Thr Pro Glu Asp
 305 310 315 320
 Ile Cys Leu Gly

<210> 105
 <211> 1446
 <212> DNA
 <213> Herpes Virus

<400> 105
 atggcctgtc gtaagttttg tcgcgttttac gggggacagg gcaggaggaa ggaggaggcc 60
 gtcccgcgag agacaaagcc gtcccgggtg tttcctcatg gcccctttta taccacagcc 120
 gaggacgcgt gcctggactc cccgcccccg gagaccccca aaccttccca caccacacca 180
 cccagcagagg ccgagcgcct gtgtcatctg caggagatcc ttgccagat gtacggaaac 240
 caggactacc ccatagagga cgaccccgag gcggatgccg cggacgatgt cgacgaggac 300
 gccccggacg acgtggccta tccggaggaa tacgcagagg agctttttct gcccggggac 360
 gcgaccggtc cccttatcgg ggccaacgac cacatccctc ccccggtgtg cgcattctcc 420
 cccggtatac gacgacgcag ccgggatgag attggggcca cgggatttac cgcggaagag 480
 ctggacgccca tggacaggga ggcggctcga gccatcagcc gcggcggaac gcccctctcg 540


```

accatggcca agctggtgac tggcatgggc tttacgatcc acggagcgct caccacagga 600
tcggaggggt gtgtctttga cagcagccat ccagattacc cccaacgggt aatcgtgaag 660
gcgggggtggt acacgagcac gagccacgag gcgcgactgc tgaggcgact ggaccacccg 720
gcgatcctgc cctcctgga cctgcatgtc gtctccgggg tcacgtgtct ggtcctcccc 780
aagtaccagg ccgacctgta tacctatctg agtaggcgcc tgaaccact gggacgcccg 840
cagatcgtag cggctctccc gcagctccta agcgccgttg actacattca ccgccagggc 900
attatccacc gcgacattaa gaccgaaaat atttttatta acaccccga ggacatttgc 960
ctgggggact ttggcgccgc gtgcttcgtg cagggttccc gatcaagccc cttcccctac 1020
ggaatcgccg gaaccatcga caccaacgcc cccgaggtcc tggccgggga tccgtatacc 1080
acgaccgtcg acatttgag cgccggtctg gtgatcttcg agactgccgt ccacaacgcg 1140
tccttgttct cggccccccg cgccccaaa aggggcccgt gcgacagtca gatcaccgcg 1200
atcatccgac agggccaggt ccacgttgac gagttttccc cgcattccaga atcgcgctc 1260
acctcgcgct accgctcccg cgcgccggg aacaatcgcc cgccgtacac ccgaccggcc 1320
tggaccgct actacaagat ggacatagac gtcgaatatc tggtttgcaa agccctcacc 1380
ttcgaaggcg cgcttcgccc cagcgccgca gagctgcttt gtttgccgct gtttcaacag 1440
aaatga 1446

```

```

<210> 106
<211> 481
<212> PRT
<213> Herpes Virus

```

```

<400> 106
Met Ala Cys Arg Lys Phe Cys Arg Val Tyr Gly Gly Gln Gly Arg Arg
  1             5             10             15

Lys Glu Glu Ala Val Pro Pro Glu Thr Lys Pro Ser Arg Val Phe Pro
          20             25             30

His Gly Pro Phe Tyr Thr Pro Ala Glu Asp Ala Cys Leu Asp Ser Pro
      35             40             45

Pro Pro Glu Thr Pro Lys Pro Ser His Thr Thr Pro Pro Ser Glu Ala
  50             55             60

Glu Arg Leu Cys His Leu Gln Glu Ile Leu Ala Gln Met Tyr Gly Asn
  65             70             75             80

Gln Asp Tyr Pro Ile Glu Asp Asp Pro Ser Ala Asp Ala Ala Asp Asp
      85             90             95

Val Asp Glu Asp Ala Pro Asp Asp Val Ala Tyr Pro Glu Glu Tyr Ala
          100             105             110

Glu Glu Leu Phe Leu Pro Gly Asp Ala Thr Gly Pro Leu Ile Gly Ala
          115             120             125

Asn Asp His Ile Pro Pro Pro Cys Gly Ala Ser Pro Pro Gly Ile Arg
      130             135             140

Arg Arg Ser Arg Asp Glu Ile Gly Ala Thr Gly Phe Thr Ala Glu Glu
      145             150             155             160

Leu Asp Ala Met Asp Arg Glu Ala Ala Arg Ala Ile Ser Arg Gly Gly
          165             170             175

Lys Pro Pro Ser Thr Met Ala Lys Leu Val Thr Gly Met Gly Phe Thr
          180             185             190

Ile His Gly Ala Leu Thr Pro Gly Ser Glu Gly Cys Val Phe Asp Ser

```


<400> 107
gtctggcatc tggggctttt gggaagcctc gtgggggctg ttcttgccgc caccatcgg 60
ggacctgcgg ccaacacaaac ggaccctta acgcacgccc cagtgtcccc tcacccagc 120
cccctggggg gctttgccgt cccctcgta gtcggtgggc tgtgcgccgt agtcctgggg 180
gcggcatgtc tgcttgagct cctgcgtcgt acgtgccgcg ggtgggggcg ttaccatccc 240
tacatggacc cagttgtcgt a 261

<210> 108
<211> 87
<212> PRT
<213> Herpes Virus

<400> 108
Val Trp His Leu Gly Leu Leu Gly Ser Leu Val Gly Ala Val Leu Ala
1 5 10 15
Ala Thr His Arg Gly Pro Ala Ala Asn Thr Thr Asp Pro Leu Thr His
20 25 30
Ala Pro Val Ser Pro His Pro Ser Pro Leu Gly Gly Phe Ala Val Pro
35 40 45
Leu Val Val Gly Gly Leu Cys Ala Val Val Leu Gly Ala Ala Cys Leu
50 55 60
Leu Glu Leu Leu Arg Arg Thr Cys Arg Gly Trp Gly Arg Tyr His Pro
65 70 75 80
Tyr Met Asp Pro Val Val
85

<210> 109
<211> 279
<212> DNA
<213> Herpes Virus

<400> 109
atgtctctgc ggcagctctg gcctctgggg cttttgggaa gcctcgtggg ggctgttctt 60
gccgccaccc atcggggacc tgcggccaac acaacggacc ccttaacgca cgccccagtg 120
tcccctcacc ccagccccct ggggggcttt gccgtcccc tcgtagtcgg tgggctgtgc 180
gccgtagtcc tgggggcggc atgtctgctt gagctcctgc gtcgtacgtg ccgcgggtgg 240
gggcgttacc atccctacat ggaccagtt gtcgtataa 279

<210> 110
<211> 92
<212> PRT
<213> Herpes Virus

<400> 110
Met Ser Leu Arg Ala Val Trp His Leu Gly Leu Leu Gly Ser Leu Val
1 5 10 15
Gly Ala Val Leu Ala Ala Thr His Arg Gly Pro Ala Ala Asn Thr Thr
20 25 30
Asp Pro Leu Thr His Ala Pro Val Ser Pro His Pro Ser Pro Leu Gly
35 40 45

Gly Phe Ala Val Pro Leu Val Val Gly Gly Leu Cys Ala Val Val Leu
50 55 60

Gly Ala Ala Cys Leu Leu Glu Leu Leu Arg Arg Thr Cys Arg Gly Trp
65 70 75 80

Gly Arg Tyr His Pro Tyr Met Asp Pro Val Val Val
85 90

<210> 111
<211> 1381
<212> DNA
<213> Herpes Virus

<400> 111
caccgacgaa tcccctaagg gggagggggc atttttacgag gaggaggggt ataacaaagt 60
ctgtcttttaa aaagcagggg ttagggagtt gttcgggtcat aagcttcagc gcgaacgacc 120
aactaccgcc atcatcagtt atccttaagg tctcttttgt gtggtgcgtt ccggtatggg 180
gggggctgcc gccaggttgg gggccgtgat tttgtttgtc gtcatagtgg gcctccatgg 240
gggtccgcagc aaatatgcct tgggtgatgc ctctctcaag atggccgacc ccaatcgctt 300
tcgcggcaaaa gaccttccgg tcctggacca gctgaccgac cctccggggg tccggcgctt 360
gtaccacatc caggcggggc taccggaccc gtccagccc cccagcctcc cgatcacggg 420
ttactacgcc gtgttgaggc gcgcctgccg cagcgtgctc ctaaacgcac cgtcggaggc 480
ccccagatt gtccgcgggg cctccgaaga cgcccgaaa caaccctaca acctgacct 540
cgcttggttt cggatgggag gcaactgtgc tatcccatc acggtcatgg agtacaccga 600
atgtctctac aacaagtctc tgggggcctg tcccatccga acgcagcccc gctggaacta 660
ctatgacagc ttcagcgccg tcagcgagga taacctgggg ttcctgatgc acgccccgcg 720
gtttgagacc gccggcacgt acctgcggct cgtgaagata aacgactgga cggagattac 780
acagtttatc ctggagcacc gagccaaggg ctctgtgaag tacgccctcc cgctgcgcac 840
ccccccgtca gcctgcctct cccccaggc ctaccagcag ggggtgacgg tggacagcat 900
cgggatgctg ccccgcttca tccccgagaa ccagcgcacc gtcgccgtat acagcttgaa 960
gatcgccggg tggcacgggc ccaaggcccc ataccagagc accctgctgc ccccgagct 1020
gtccgagacc cccaacgcca cgcagccaga actcgcccc gaagacccc aggattcggc 1080
cctcttgagg gaccccgtag ggacggtggc ggcgcaaact ccaccaaact ggcacatacc 1140
gtcgcacagc gacgcgcgca cgccttacca tccccgggc accccgaaca acatgggcct 1200
gatcgccggc gcggtgggag gcagtctcct ggcagccctg gtcatttgcg gaattgtgta 1260
ctggatgcgc cgccacactc aaaaagcccc aaagcgcata cgcctcccc acatccggga 1320
agacgaccag ccgtcctcgc accagccctt gttttactag ataccccccc ttaatgggtg 1380
c 1381

<210> 112
<211> 394
<212> PRT
<213> Herpes Virus

<400> 112
Met Gly Gly Ala Ala Ala Arg Leu Gly Ala Val Ile Leu Phe Val Val
1 5 10 15
Ile Val Gly Leu His Gly Val Arg Ser Lys Tyr Ala Leu Val Asp Ala
20 25 30
Ser Leu Lys Met Ala Asp Pro Asn Arg Phe Arg Gly Lys Asp Leu Pro
35 40 45
Val Leu Asp Gln Leu Thr Asp Pro Pro Gly Val Arg Arg Val Tyr His
50 55 60

Ile Gln Ala Gly Leu Pro Asp Pro Phe Gln Pro Pro Ser Leu Pro Ile
 65 70 75 80
 Thr Val Tyr Tyr Ala Val Leu Glu Arg Ala Cys Arg Ser Val Leu Leu
 85 90 95
 Asn Ala Pro Ser Glu Ala Pro Gln Ile Val Arg Gly Ala Ser Glu Asp
 100 105 110
 Val Arg Lys Gln Pro Tyr Asn Leu Thr Ile Ala Trp Phe Arg Met Gly
 115 120 125
 Gly Asn Cys Ala Ile Pro Ile Thr Val Met Glu Tyr Thr Glu Cys Ser
 130 135 140
 Tyr Asn Lys Ser Leu Gly Ala Cys Pro Ile Arg Thr Gln Pro Arg Trp
 145 150 155 160
 Asn Tyr Tyr Asp Ser Phe Ser Ala Val Ser Glu Asp Asn Leu Gly Phe
 165 170 175
 Leu Met His Ala Pro Ala Phe Glu Thr Ala Gly Thr Tyr Leu Arg Leu
 180 185 190
 Val Lys Ile Asn Asp Trp Thr Glu Ile Thr Gln Phe Ile Leu Glu His
 195 200 205
 Arg Ala Lys Gly Ser Cys Lys Tyr Ala Leu Pro Leu Arg Ile Pro Pro
 210 215 220
 Ser Ala Cys Leu Ser Pro Gln Ala Tyr Gln Gln Gly Val Thr Val Asp
 225 230 235 240
 Ser Ile Gly Met Leu Pro Arg Phe Ile Pro Glu Asn Gln Arg Thr Val
 245 250 255
 Ala Val Tyr Ser Leu Lys Ile Ala Gly Trp His Gly Pro Lys Ala Pro
 260 265 270
 Tyr Thr Ser Thr Leu Leu Pro Pro Glu Leu Ser Glu Thr Pro Asn Ala
 275 280 285
 Thr Gln Pro Glu Leu Ala Pro Glu Asp Pro Glu Asp Ser Ala Leu Leu
 290 295 300
 Glu Asp Pro Val Gly Thr Val Ala Pro Gln Ile Pro Pro Asn Trp His
 305 310 315 320
 Ile Pro Ser Ile Gln Asp Ala Ala Thr Pro Tyr His Pro Pro Ala Thr
 325 330 335
 Pro Asn Asn Met Gly Leu Ile Ala Gly Ala Val Gly Gly Ser Leu Leu
 340 345 350
 Ala Ala Leu Val Ile Cys Gly Ile Val Tyr Trp Met Arg Arg His Thr
 355 360 365
 Gln Lys Ala Pro Lys Arg Ile Arg Leu Pro His Ile Arg Glu Asp Asp
 370 375 380
 Gln Pro Ser Ser His Gln Pro Leu Phe Tyr

385

390

<210> 113
 <211> 1092
 <212> DNA
 <213> Herpes Virus

<400> 113
 attttgtttg tgcgtcatagt gggcctccat ggggtccgca gcaaatatgc cttggtggat 60
 gcctctctca agatggccga cccaatcgc tttcgcgga aagaccttcc ggtectggac 120
 cagctgaccg accctccggg ggtccggcgc gtgtaccaca tccaggcggg cctaccggac 180
 ccgttccagc cccccagcct cccgatcacg gtttactacg ccgtgttga gcgcgcctgc 240
 cgcagcgtgc tcctaaacgc accgtcggag gccccccaga ttgtccgcgg ggcctccgaa 300
 gacgtccgga aacaacccta caacctgacc atcgcttggg ttcggatggg aggcaactgt 360
 gctatcccca tcacgggtcat ggagtacacc gaatgctcct acaacaagtc tctggggggc 420
 tgtcccatcc gaacgcagcc ccgctggaac tactatgaca gcttcagcgc cgtcagcgag 480
 gataacctgg gggtcctgat gcacgcccc gcgtttgaga ccgccggcac gtacctgcgg 540
 ctcgtgaaga taaacgactg gacggagatt acacagttta tcttgagca ccgagccaag 600
 ggctcctgta agtacgcct cccgctgcgc atcccccggt cagcctgcct ctccccccag 660
 gcctaccagc aggggggtgac ggtggacagc atcgggatgc tgccccgctt catccccgag 720
 aaccagcgca ccgtcgccgt atacagcttg aagatcgccg ggtggcacgg gcccaaggcc 780
 ccatacacga gcaccctgct gcccccgag ctgtccgaga ccccaacgc cagcgagcca 840
 gaactcgccc cggaagaccc cgaggattcg gccctcttgg aggaccccg ggggacgggtg 900
 gcgccgcaaa tcccaccaa ctggcacata ccgtcgatcc aggacgccgc gacgccttac 960
 catcccccg ccaccccgaa caacatgggc ctgatcgccg gcgcggtggg cggcagtcctc 1020
 ctggcagccc tggtcatttg cgaattgtg tactggatgc gccgccacac tcaaaaagcc 1080
 ccaaagcgca ta 1092

<210> 114
 <211> 364
 <212> PRT
 <213> Herpes Virus

<400> 114
 Ile Leu Phe Val Val Ile Val Gly Leu His Gly Val Arg Ser Lys Tyr
 1 5 10 15
 Ala Leu Val Asp Ala Ser Leu Lys Met Ala Asp Pro Asn Arg Phe Arg
 20 25 30
 Gly Lys Asp Leu Pro Val Leu Asp Gln Leu Thr Asp Pro Pro Gly Val
 35 40 45
 Arg Arg Val Tyr His Ile Gln Ala Gly Leu Pro Asp Pro Phe Gln Pro
 50 55 60
 Pro Ser Leu Pro Ile Thr Val Tyr Tyr Ala Val Leu Glu Arg Ala Cys
 65 70 75 80
 Arg Ser Val Leu Leu Asn Ala Pro Ser Glu Ala Pro Gln Ile Val Arg
 85 90 95
 Gly Ala Ser Glu Asp Val Arg Lys Gln Pro Tyr Asn Leu Thr Ile Ala
 100 105 110
 Trp Phe Arg Met Gly Gly Asn Cys Ala Ile Pro Ile Thr Val Met Glu
 115 120 125
 Tyr Thr Glu Cys Ser Tyr Asn Lys Ser Leu Gly Ala Cys Pro Ile Arg

130	135	140
Thr Gln Pro Arg Trp Asn Tyr Tyr Asp Ser Phe Ser Ala Val Ser Glu		
145	150	155 160
Asp Asn Leu Gly Phe Leu Met His Ala Pro Ala Phe Glu Thr Ala Gly		
	165	170 175
Thr Tyr Leu Arg Leu Val Lys Ile Asn Asp Trp Thr Glu Ile Thr Gln		
	180	185 190
Phe Ile Leu Glu His Arg Ala Lys Gly Ser Cys Lys Tyr Ala Leu Pro		
	195	200 205
Leu Arg Ile Pro Pro Ser Ala Cys Leu Ser Pro Gln Ala Tyr Gln Gln		
	210	215 220
Gly Val Thr Val Asp Ser Ile Gly Met Leu Pro Arg Phe Ile Pro Glu		
	225	230 235 240
Asn Gln Arg Thr Val Ala Val Tyr Ser Leu Lys Ile Ala Gly Trp His		
	245	250 255
Gly Pro Lys Ala Pro Tyr Thr Ser Thr Leu Leu Pro Pro Glu Leu Ser		
	260	265 270
Glu Thr Pro Asn Ala Thr Gln Pro Glu Leu Ala Pro Glu Asp Pro Glu		
	275	280 285
Asp Ser Ala Leu Leu Glu Asp Pro Val Gly Thr Val Ala Pro Gln Ile		
	290	295 300
Pro Pro Asn Trp His Ile Pro Ser Ile Gln Asp Ala Ala Thr Pro Tyr		
	305	310 315 320
His Pro Pro Ala Thr Pro Asn Asn Met Gly Leu Ile Ala Gly Ala Val		
	325	330 335
Gly Gly Ser Leu Leu Ala Ala Leu Val Ile Cys Gly Ile Val Tyr Trp		
	340	345 350
Met Arg Arg His Thr Gln Lys Ala Pro Lys Arg Ile		
	355	360

<210> 115

<211> 1185

<212> DNA

<213> Herpes Virus

<400> 115

```

atgggggggg ctgccgccag gttggggggc gtgattttgt ttgtcgtcat agtggggctc 60
catgggggtcc gcagcaaata tgccttggtg gatgcctctc tcaagatggc cgaccccaat 120
cgcttttcgcg gcaaagacct tccggtcctg gaccagctga ccgaccctcc ggggggtccg 180
cgcgtgtacc acatccaggc gggcctaccg gaccggttcc agccccccag cctcccgatc 240
acggtttact acgccgtgtt ggagcgcgcc tgccgcagcg tgctcctaaa cgcaccgtcg 300
gaggcccccc agattgtccg cggggcctcc gaagacgtcc ggaacaacc ctacaacctg 360
accatcgctt ggtttcggat gggaggcaac tgtgctatcc ccatcacggt catggagtac 420
accgaatgct cctacaacaa gtctctgggg gcctgtccca tccgaacgca gccccgctgg 480
aactactatg acagcttcag cgccgtcagc gaggataacc tgggggttct gatgcacgcc 540
cccgcgtttg agaccgccgg cacgtacctg cggctcgtga agataaacga ctggacggag 600

```

```

attacacagt ttatcctgga gcaccgagcc aagggctcct gtaagtacgc cctcccgcgtg 660
cgcaccccc cgtagcctg cctctcccc caggcctacc agcagggggt gacgggtggac 720
agcatcgga tgctgcccc cttcatcccc gagaaccagc gcaccgtcgc cgtatacagc 780
ttgaagatcg cgggtggca cgggccaag gcccataca cgagcaccct gctgcccccg 840
gagctgtccg agaccccaa cgccacgcag ccagaactcg ccccggaaga ccccgaggat 900
tcggccctct tggaggacc cgtagggacg gtggcgccgc aaatcccacc aaactggcac 960
ataccgtcga tccaggacgc cgcgacgct taccatcccc cggccacccc gaacaacatg 1020
ggcctgatcg cggcgcggt gggcggcagt ctctggcag ccttggtcat ttgcggaatt 1080
gtgtactgga tgcgcccca cactcaaaaa gcccacaaagc gcatacgctt ccccccacatc 1140
cggaagacg accagccgtc ctgcaccag cccttgtttt actag 1185

```

<210> 116
 <211> 394
 <212> PRT
 <213> Herpes Virus

```

<400> 116
Met Gly Gly Ala Ala Arg Leu Gly Ala Val Ile Leu Phe Val Val
  1           5           10           15

Ile Val Gly Leu His Gly Val Arg Ser Lys Tyr Ala Leu Val Asp Ala
          20           25           30

Ser Leu Lys Met Ala Asp Pro Asn Arg Phe Arg Gly Lys Asp Leu Pro
          35           40           45

Val Leu Asp Gln Leu Thr Asp Pro Pro Gly Val Arg Arg Val Tyr His
          50           55           60

Ile Gln Ala Gly Leu Pro Asp Pro Phe Gln Pro Pro Ser Leu Pro Ile
          65           70           75           80

Thr Val Tyr Tyr Ala Val Leu Glu Arg Ala Cys Arg Ser Val Leu Leu
          85           90           95

Asn Ala Pro Ser Glu Ala Pro Gln Ile Val Arg Gly Ala Ser Glu Asp
          100          105          110

Val Arg Lys Gln Pro Tyr Asn Leu Thr Ile Ala Trp Phe Arg Met Gly
          115          120          125

Gly Asn Cys Ala Ile Pro Ile Thr Val Met Glu Tyr Thr Glu Cys Ser
          130          135          140

Tyr Asn Lys Ser Leu Gly Ala Cys Pro Ile Arg Thr Gln Pro Arg Trp
          145          150          155          160

Asn Tyr Tyr Asp Ser Phe Ser Ala Val Ser Glu Asp Asn Leu Gly Phe
          165          170          175

Leu Met His Ala Pro Ala Phe Glu Thr Ala Gly Thr Tyr Leu Arg Leu
          180          185          190

Val Lys Ile Asn Asp Trp Thr Glu Ile Thr Gln Phe Ile Leu Glu His
          195          200          205

Arg Ala Lys Gly Ser Cys Lys Tyr Ala Leu Pro Leu Arg Ile Pro Pro
          210          215          220

Ser Ala Cys Leu Ser Pro Gln Ala Tyr Gln Gln Gly Val Thr Val Asp

```


225		230		235		240
Ser Ile Gly Met	Leu Pro Arg Phe Ile	Pro Glu Asn Gln Arg Thr Val				
	245	250			255	
Ala Val Tyr Ser	Leu Lys Ile Ala Gly Trp His Gly Pro Lys Ala Pro					
	260	265			270	
Tyr Thr Ser Thr	Leu Leu Pro Pro Glu Leu Ser Glu Thr Pro Asn Ala					
	275	280			285	
Thr Gln Pro Glu	Leu Ala Pro Glu Asp Pro Glu Asp Ser Ala Leu Leu					
	290	295			300	
Glu Asp Pro Val Gly	Thr Val Ala Pro Gln Ile Pro Pro Asn Trp His					
305	310	315			320	
Ile Pro Ser Ile	Gln Asp Ala Ala Thr Pro Tyr His Pro Pro Ala Thr					
	325	330			335	
Pro Asn Asn Met	Gly Leu Ile Ala Gly Ala Val Gly Gly Ser Leu Leu					
	340	345			350	
Ala Ala Leu Val	Ile Cys Gly Ile Val Tyr Trp Met Arg Arg His Thr					
	355	360			365	
Gln Lys Ala Pro	Lys Arg Ile Arg Leu Pro His Ile Arg Glu Asp Asp					
	370	375			380	
Gln Pro Ser Ser	His Gln Pro Leu Phe Tyr					
385	390					